

**Ackerman, Joyce**

From: Patrick Medland <PMedland@Geosyntec.com>
Sent: Friday, May 11, 2018 3:49 PM
To: Sandusky, Eric
Cc: Ackerman, Joyce
Subject: RE: Phase 2A Stockpile Data
Attachments: J77433-1 UDS Level 2 Report Final Report.pdf

Eric,

Attached is the Phase 1 stockpile data. Please note the sample ID that includes "SP225" is a duplicate sample. The other 24 samples are from stockpiles labeled 201-224. Please let me know EPA's position on the future location of these soils (on or off site). If possible, a determination by/on Monday (the 14th) would be ideal as we have completed moving all other impacted stockpiles offsite and are planning on having the end dump back onsite on Tuesday to deal with the remaining impacted soils, assuming we have EPA's position.

Thanks and have a great weekend!

Patrick

Patrick Medland
Scientist

Geosyntec Consultants
5670 Greenwood Plaza Blvd Ste 540
Greenwood Village, CO 80111

Office: 303-790-1340
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From: Patrick Medland
Sent: Thursday, May 3, 2018 12:19 PM
To: Sandusky, Eric <Eric.Sandusky@WestonSolutions.com>
Cc: 'Ackerman, Joyce' <Ackerman.Joyce@epa.gov>
Subject: Phase 2A Stockpile Data

Eric,

Patrick Medland
Scientist

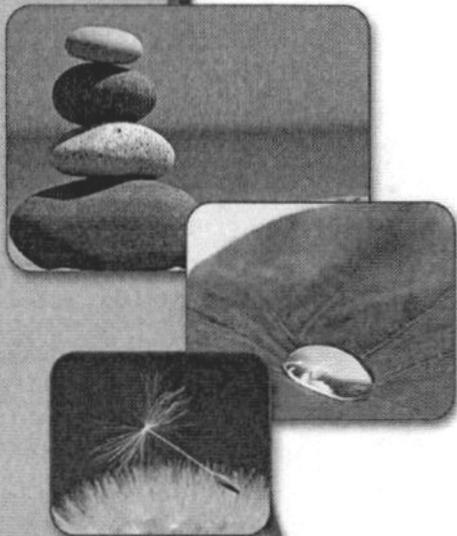
Geosyntec Consultants
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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT



TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-77433-1

Client Project/Site: Stratus Redtail Ranch, LLC

For:

Geosyntec Consultants, Inc.

5670 Greenwood Plaza Blvd

Suite 540

Greenwood Village, Colorado 80111

Attn: Thomas J Krasovec

Authorized for release by:

5/11/2018 5:20:53 PM

David Dunlap, Senior Project Manager

(412)963-2432

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Expert

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Job ID: 180-77433-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative 180-77433-1

Receipt

The samples were received on 5/5/2018 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.6° C and 5.6° C.

GC/MS VOA

Method(s) 8260C: The following samples (totals analysis) were diluted to bring the concentration of target analytes within the calibration range: NLF-SS-PHASE1-SP203-050418 (180-77433-4), NLF-SS-PHASE1-SP204-050418 (180-77433-5), NLF-SS-PHASE1-SP205-050418 (180-77433-6), NLF-SS-PHASE1-SP206-050418 (180-77433-7), NLF-SS-PHASE1-SP207-050418 (180-77433-8), NLF-SS-PHASE1-SP208-050418 (180-77433-9), NLF-SS-PHASE1-SP209-050418 (180-77433-10), NLF-SS-PHASE1-SP210-050418 (180-77433-11), NLF-SS-PHASE1-SP211-050418 (180-77433-12), NLF-SS-PHASE1-SP212-050418 (180-77433-13), NLF-SS-PHASE1-SP213-050418 (180-77433-14), NLF-SS-PHASE1-SP215-050418 (180-77433-16), NLF-SS-PHASE1-SP216-050418 (180-77433-17), NLF-SS-PHASE1-SP217-050418 (180-77433-18), NLF-SS-PHASE1-SP219-050418 (180-77433-20), NLF-SS-PHASE1-SP222-050418 (180-77433-23), NLF-SS-PHASE1-SP223-050418 (180-77433-24), NLF-SS-PHASE1-SP224-050418 (180-77433-25), and NLF-SS-PHASE1-SP225-050418 (180-77433-26). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The recovery of surrogate 4-bromofluorobenzene was above the control limits in sample (TCLP analysis) NLF-SS-PHASE1-SP224-050418 (180-77433-25). The sample was re-analyzed and again had high surrogate recovery. The results of the original analysis were reported.

Method(s) 8260C: The laboratory control sample (LCS) for preparation batch 180-244128 and analytical batch 180-244222 recovered above the control limits for the following analyte: trichlorofluoromethane. As this analyte was biased high in the LCS and was not detected in the associated samples above the reporting limit, the results were reported.

Method(s) 8260C: The laboratory control sample (LCS) for preparation batch 180-244128 and analytical batch 180-244223 recovered above the control limits for the following analytes: acetone and trichlorofluoromethane. As these analytes were biased high in the LCS and were not detected in the associated samples above the reporting limit, the results were reported.

Method(s) 8260C: The laboratory control sample (LCS) for preparation batch 180-244130 and analytical batch 180-244465 recovered above the control limits for the following analytes: acetone and trichlorofluoromethane. As these analytes were biased high in the LCS and were not detected in the associated samples above the reporting limit, the results were reported.

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 180-244345 recovered below the control limits for the following analytes: 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, and tetrahydrofuran. A low-level LCS (LLCS), spiked at the reporting limit (RL), was prepared with this batch. The affected target analytes recovered within acceptance limits; therefore, the LLCS demonstrates the analytical system had sufficient sensitivity to detect the compounds had they been present. Since the affected target compounds were not detected in the samples, the results were reported.

Method(s) 8260C: The matrix spike/matrix spike duplicate (MS/MSD) of sample (total analysis) NLF-SS-PHASE1-SP201-050418 (180-77433-2) had several recoveries and RPDs between the spikes outside of the control limits.

Method(s) 8260C: The matrix spike/matrix spike duplicate (MS/MSD) of sample (total analysis) NLF-SS-PHASE1-SP220-050418 (180-77433-21) had the recoveries of acetone and/or trichlorofluoromethane above the control limits.

Method(s) 8260C: The matrix spike duplicate (MSD) of sample (TCLP analysis) NLF-SS-PHASE1-SP220-050418 (180-77433-21) had the recoveries of tetrachloroethene and trichloroethene above the control limits.

Method(s) 8260C: The continuing calibration verifications (CCVs) analyzed in batch 180-244222 were below criteria for the following analyte: cyclohexanone, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, acetone, chloromethane, dichlorodifluoromethane, and vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Job ID: 180-77433-1 (Continued)

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Laboratory: TestAmerica Pittsburgh (Continued)

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-244222 was above criteria for the following analyte: trichlorofluoromethane. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-244343 was above criteria for the following analyte: 2-butanone, acetone, and trichlorofluoromethane. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-244343 was outside the method criteria for the following analytes: chloromethane, dichlorodifluoromethane, methylene chloride, and vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-244345 was above criteria for the following analytes: 1,1,2-trichloroethane, chloroethane, dichlorodifluoromethane, trichlorofluoromethane, and toluene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-244345 was below criteria for the following analytes: 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,2-dibromo-3-chloropropane, 1,4-dioxane, chloromethane, isopropylbenzene, and tetrahydrofuran. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verifications (CCVs) analyzed in batch 180-244465 were below criteria for the following analytes: cyclohexanone, 1,2,3-trichlorobenzene, and 1,2,4-trichlorobenzene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-244605 was above criteria for the following analytes: 1,1,1-trichloroethane, 1,4-dioxane, acetone, bromomethane, carbon tetrachloride, dichlorobromomethane, and trichlorofluoromethane. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-244605 was below criteria for the following analytes: 1,2,3-trichlorobenzene and 1,2,4-trichlorobenzene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
L	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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TestAmerica Pittsburgh

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
 Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Laboratory: TestAmerica Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-18
California	State Program	9	2891	04-30-19
Connecticut	State Program	1	PH-0688	09-30-18
Florida	NELAP	4	E871008	06-30-18
Illinois	NELAP	5	200005	06-30-18
Kansas	NELAP	7	E-10350	01-31-19
Louisiana	NELAP	6	04041	06-30-18
Nevada	State Program	9	PA00164	07-31-18
New Hampshire	NELAP	1	2030	04-04-19
New Jersey	NELAP	2	PA005	06-30-18
New York	NELAP	2	11182	03-31-19
North Carolina (WW/SW)	State Program	4	434	12-31-18
Oregon	NELAP Secondary AB	10	PA-2151	01-28-19
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-18 *
Texas	NELAP	6	T104704528-15-2	03-31-19
US Fish & Wildlife	Federal		LE94312A-1	07-31-18
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-18
Virginia	NELAP	3	460189	09-14-18
West Virginia DEP	State Program	3	142	01-31-19
Wisconsin	State Program	5	998027800	08-31-18

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* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Pittsburgh

Sample Summary

Client: Geosyntec Consultants, Inc.
 Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-77433-1	TB050418	Water	05/04/18 10:05	05/05/18 10:30
180-77433-2	NLF-SS-PHASE1-SP201-050418	Solid	05/04/18 10:10	05/05/18 10:30
180-77433-3	NLF-SS-PHASE1-SP202-050418	Solid	05/04/18 10:20	05/05/18 10:30
180-77433-4	NLF-SS-PHASE1-SP203-050418	Solid	05/04/18 10:27	05/05/18 10:30
180-77433-5	NLF-SS-PHASE1-SP204-050418	Solid	05/04/18 10:33	05/05/18 10:30
180-77433-6	NLF-SS-PHASE1-SP205-050418	Solid	05/04/18 10:34	05/05/18 10:30
180-77433-7	NLF-SS-PHASE1-SP206-050418	Solid	05/04/18 10:45	05/05/18 10:30
180-77433-8	NLF-SS-PHASE1-SP207-050418	Solid	05/04/18 10:52	05/05/18 10:30
180-77433-9	NLF-SS-PHASE1-SP208-050418	Solid	05/04/18 10:59	05/05/18 10:30
180-77433-10	NLF-SS-PHASE1-SP209-050418	Solid	05/04/18 11:06	05/05/18 10:30
180-77433-11	NLF-SS-PHASE1-SP210-050418	Solid	05/04/18 11:12	05/05/18 10:30
180-77433-12	NLF-SS-PHASE1-SP211-050418	Solid	05/04/18 11:19	05/05/18 10:30
180-77433-13	NLF-SS-PHASE1-SP212-050418	Solid	05/04/18 11:26	05/05/18 10:30
180-77433-14	NLF-SS-PHASE1-SP213-050418	Solid	05/04/18 11:33	05/05/18 10:30
180-77433-15	NLF-SS-PHASE1-SP214-050418	Solid	05/04/18 11:39	05/05/18 10:30
180-77433-16	NLF-SS-PHASE1-SP215-050418	Solid	05/04/18 13:15	05/05/18 10:30
180-77433-17	NLF-SS-PHASE1-SP216-050418	Solid	05/04/18 13:21	05/05/18 10:30
180-77433-18	NLF-SS-PHASE1-SP217-050418	Solid	05/04/18 13:27	05/05/18 10:30
180-77433-19	NLF-SS-PHASE1-SP218-050418	Solid	05/04/18 13:33	05/05/18 10:30
180-77433-20	NLF-SS-PHASE1-SP219-050418	Solid	05/04/18 13:34	05/05/18 10:30
180-77433-21	NLF-SS-PHASE1-SP220-050418	Solid	05/04/18 13:45	05/05/18 10:30
180-77433-22	NLF-SS-PHASE1-SP221-050418	Solid	05/04/18 13:55	05/05/18 10:30
180-77433-23	NLF-SS-PHASE1-SP222-050418	Solid	05/04/18 14:01	05/05/18 10:30
180-77433-24	NLF-SS-PHASE1-SP223-050418	Solid	05/04/18 14:07	05/05/18 10:30
180-77433-25	NLF-SS-PHASE1-SP224-050418	Solid	05/04/18 14:13	05/05/18 10:30
180-77433-26	NLF-SS-PHASE1-SP225-050418	Solid	05/04/18 14:19	05/05/18 10:30

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TestAmerica Pittsburgh

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
5030C	Purge and Trap	SW846	TAL PIT
EPA 1311	TCLP Extraction	SW846	TAL PIT

Protocol References:

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

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Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TestAmerica Pittsburgh

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: TB050418

Lab Sample ID: 180-77433-1

Date Collected: 05/04/18 10:05

Matrix: Water

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	244345	05/09/18 14:43	PJJ	TAL PIT

Client Sample ID: NLF-SS-PHASE1-SP201-050418

Lab Sample ID: 180-77433-2

Date Collected: 05/04/18 10:10

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.03 g	500 mL	244100	05/06/18 14:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C		1	0.125 mL	5 mL	244132	05/07/18 14:56	KLG	TAL PIT
Total/NA	Analysis	2540G		1			244425	05/09/18 13:07	BSH	TAL PIT

Client Sample ID: NLF-SS-PHASE1-SP201-050418

Lab Sample ID: 180-77433-2

Date Collected: 05/04/18 10:10

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0001 g	5 mL	244128	05/07/18 07:32	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		1	0.1 mL	5 mL	244222	05/08/18 12:43	PJJ	TAL PIT

Client Sample ID: NLF-SS-PHASE1-SP202-050418

Lab Sample ID: 180-77433-3

Date Collected: 05/04/18 10:20

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.36 g	500 mL	244100	05/06/18 14:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C		1	0.125 mL	5 mL	244132	05/07/18 15:18	KLG	TAL PIT
Total/NA	Analysis	2540G		1			244425	05/09/18 13:07	BSH	TAL PIT

Client Sample ID: NLF-SS-PHASE1-SP202-050418

Lab Sample ID: 180-77433-3

Date Collected: 05/04/18 10:20

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0000 g	5 mL	244128	05/07/18 07:32	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		1	0.1 mL	5 mL	244222	05/08/18 13:15	PJJ	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP203-050418					Lab Sample ID: 180-77433-4				
Date Collected: 05/04/18 10:27					Matrix: Solid				
Date Received: 05/05/18 10:30									

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.01 g	500 mL	244100	05/06/18 14:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C		1	0.125 mL	5 mL	244132	05/07/18 15:40	KLG	TAL PIT
Total/NA	Analysis	2540G					244425	05/09/18 13:07	BSH	TAL PIT
		Instrument ID: CHHP9								
		Instrument ID: NOEQUIP								

Client Sample ID: NLF-SS-PHASE1-SP203-050418					Lab Sample ID: 180-77433-4				
Date Collected: 05/04/18 10:27					Matrix: Solid				
Date Received: 05/05/18 10:30					Percent Solids: 78.6				

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0020 g	5 mL	244128	05/07/18 07:32	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		20	0.1 mL	5 mL	244222	05/08/18 15:37	PJJ	TAL PIT
		Instrument ID: CHHP4								

Client Sample ID: NLF-SS-PHASE1-SP204-050418					Lab Sample ID: 180-77433-5				
Date Collected: 05/04/18 10:33					Matrix: Solid				
Date Received: 05/05/18 10:30									

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.38 g	500 mL	244100	05/06/18 14:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C		1	0.125 mL	5 mL	244132	05/07/18 16:02	KLG	TAL PIT
Total/NA	Analysis	2540G					244425	05/09/18 13:07	BSH	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: NLF-SS-PHASE1-SP204-050418					Lab Sample ID: 180-77433-5				
Date Collected: 05/04/18 10:33					Matrix: Solid				
Date Received: 05/05/18 10:30					Percent Solids: 84.7				

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0000 g	5 mL	244128	05/07/18 07:32	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		25	0.1 mL	5 mL	244343	05/09/18 12:09	PJJ	TAL PIT
		Instrument ID: CHHP4								

Client Sample ID: NLF-SS-PHASE1-SP205-050418					Lab Sample ID: 180-77433-6				
Date Collected: 05/04/18 10:34					Matrix: Solid				
Date Received: 05/05/18 10:30									

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.24 g	500 mL	244100	05/06/18 14:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C		1	0.125 mL	5 mL	244132	05/07/18 16:24	KLG	TAL PIT
		Instrument ID: CHHP9								

TestAmerica Pittsburgh

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP205-050418

Lab Sample ID: 180-77433-6

Date Collected: 05/04/18 10:34

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			244425	05/09/18 13:07	BSH	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: NLF-SS-PHASE1-SP205-050418

Lab Sample ID: 180-77433-6

Date Collected: 05/04/18 10:34

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0000 g	5 mL	244128	05/07/18 07:32	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		20	0.1 mL	5 mL	244222	05/08/18 17:52	PJJ	TAL PIT
Instrument ID: CHHP4										

Client Sample ID: NLF-SS-PHASE1-SP206-050418

Lab Sample ID: 180-77433-7

Date Collected: 05/04/18 10:45

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.02 g	500 mL	244100	05/06/18 14:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C		1	0.125 mL	5 mL	244132	05/07/18 16:46	KLG	TAL PIT
Total/NA	Analysis	2540G		1			244425	05/09/18 13:07	BSH	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: NLF-SS-PHASE1-SP206-050418

Lab Sample ID: 180-77433-7

Date Collected: 05/04/18 10:45

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0020 g	5 mL	244128	05/07/18 07:32	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		25	0.1 mL	5 mL	244343	05/09/18 12:38	PJJ	TAL PIT
Instrument ID: CHHP4										

Client Sample ID: NLF-SS-PHASE1-SP207-050418

Lab Sample ID: 180-77433-8

Date Collected: 05/04/18 10:52

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.29 g	500 mL	244100	05/06/18 14:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C		1	0.125 mL	5 mL	244132	05/07/18 17:08	KLG	TAL PIT
Total/NA	Analysis	2540G		1			244425	05/09/18 13:07	BSH	TAL PIT
Instrument ID: NOEQUIP										

TestAmerica Pittsburgh

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP207-050418

Lab Sample ID: 180-77433-8

Date Collected: 05/04/18 10:52

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0010 g	5 mL	244128	05/07/18 07:32	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		25	0.1 mL	5 mL	244343	05/09/18 13:06	PJJ	TAL PIT
Instrument ID: CHHP4										

Client Sample ID: NLF-SS-PHASE1-SP208-050418

Lab Sample ID: 180-77433-9

Date Collected: 05/04/18 10:59

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.50 g	500 mL	244100	05/06/18 14:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C		1	0.125 mL	5 mL	244132	05/07/18 17:30	KLG	TAL PIT
		Instrument ID: CHHP9								
Total/NA	Analysis	2540G		1			244425	05/09/18 13:07	BSH	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: NLF-SS-PHASE1-SP208-050418

Lab Sample ID: 180-77433-9

Date Collected: 05/04/18 10:59

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.1014 g	5 mL	244128	05/07/18 07:32	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		25	0.1 mL	5 mL	244343	05/09/18 11:01	PJJ	TAL PIT
		Instrument ID: CHHP4								

Client Sample ID: NLF-SS-PHASE1-SP209-050418

Lab Sample ID: 180-77433-10

Date Collected: 05/04/18 11:06

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.08 g	500 mL	244100	05/06/18 14:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C		1	0.125 mL	5 mL	244132	05/07/18 17:52	KLG	TAL PIT
		Instrument ID: CHHP9								
Total/NA	Analysis	2540G		1			244425	05/09/18 13:07	BSH	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: NLF-SS-PHASE1-SP209-050418

Lab Sample ID: 180-77433-10

Date Collected: 05/04/18 11:06

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0000 g	5 mL	244128	05/07/18 07:32	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		25	0.1 mL	5 mL	244343	05/09/18 11:29	PJJ	TAL PIT
		Instrument ID: CHHP4								

TestAmerica Pittsburgh

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP210-050418

Lab Sample ID: 180-77433-11

Date Collected: 05/04/18 11:12

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.13 g	500 mL	244100	05/06/18 14:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C Instrument ID: CHHP9		1	0.125 mL	5 mL	244132	05/07/18 18:14	KLG	TAL PIT
Total/NA	Analysis	2540G Instrument ID: NOEQUIP		1			244425	05/09/18 13:07	BSH	TAL PIT

Client Sample ID: NLF-SS-PHASE1-SP210-050418

Lab Sample ID: 180-77433-11

Date Collected: 05/04/18 11:12

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0000 g	5 mL	244128	05/07/18 07:32	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C Instrument ID: CHHP4		100	0.1 mL	5 mL	244343	05/09/18 17:25	PJJ	TAL PIT

Client Sample ID: NLF-SS-PHASE1-SP211-050418

Lab Sample ID: 180-77433-12

Date Collected: 05/04/18 11:19

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.07 g	500 mL	244100	05/06/18 14:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C Instrument ID: CHHP9		1	0.125 mL	5 mL	244132	05/07/18 13:28	KLG	TAL PIT
Total/NA	Analysis	2540G Instrument ID: NOEQUIP		1			244425	05/09/18 13:07	BSH	TAL PIT

Client Sample ID: NLF-SS-PHASE1-SP211-050418

Lab Sample ID: 180-77433-12

Date Collected: 05/04/18 11:19

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0106 g	5 mL	244128	05/07/18 07:32	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C Instrument ID: CHHP4		25	0.1 mL	5 mL	244343	05/09/18 13:34	PJJ	TAL PIT

Client Sample ID: NLF-SS-PHASE1-SP212-050418

Lab Sample ID: 180-77433-13

Date Collected: 05/04/18 11:26

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.15 g	500 mL	244314	05/08/18 17:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C Instrument ID: CHHP9		1	0.125 mL	5 mL	244372	05/09/18 15:07	KLG	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP212-050418						Lab Sample ID: 180-77433-13				
Date Collected: 05/04/18 11:26			Matrix: Solid							
Date Received: 05/05/18 10:30										

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			244425	05/09/18 13:07	BSH	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: NLF-SS-PHASE1-SP212-050418						Lab Sample ID: 180-77433-13				
Date Collected: 05/04/18 11:26			Matrix: Solid							
Date Received: 05/05/18 10:30							Percent Solids: 76.8			

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.1003 g	5 mL	244128	05/07/18 07:32	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		100	0.1 mL	5 mL	244343	05/09/18 18:22	PJJ	TAL PIT
Instrument ID: CHHP4										

Client Sample ID: NLF-SS-PHASE1-SP213-050418						Lab Sample ID: 180-77433-14				
Date Collected: 05/04/18 11:33			Matrix: Solid							
Date Received: 05/05/18 10:30							Percent Solids: 76.8			

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.15 g	500 mL	244314	05/08/18 17:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C		1	0.125 mL	5 mL	244372	05/09/18 15:29	KLG	TAL PIT
Total/NA	Analysis	2540G		1			244425	05/09/18 13:07	BSH	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: NLF-SS-PHASE1-SP213-050418						Lab Sample ID: 180-77433-14				
Date Collected: 05/04/18 11:33			Matrix: Solid							
Date Received: 05/05/18 10:30							Percent Solids: 73.7			

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0004 g	5 mL	244128	05/07/18 07:32	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		50	0.1 mL	5 mL	244343	05/09/18 17:53	PJJ	TAL PIT
Instrument ID: CHHP4										

Client Sample ID: NLF-SS-PHASE1-SP214-050418						Lab Sample ID: 180-77433-15				
Date Collected: 05/04/18 11:39			Matrix: Solid							
Date Received: 05/05/18 10:30							Percent Solids: 73.7			

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.48 g	500 mL	244314	05/08/18 17:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C		1	0.125 mL	5 mL	244372	05/09/18 15:51	KLG	TAL PIT
Total/NA	Analysis	2540G		1			244436	05/09/18 13:39	BSH	TAL PIT
Instrument ID: NOEQUIP										

TestAmerica Pittsburgh

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP214-050418

Lab Sample ID: 180-77433-15

Date Collected: 05/04/18 11:39

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 74.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0000 g	5 mL	244128	05/07/18 07:32	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C Instrument ID: CHHP4		1	0.1 mL	5 mL	244343	05/09/18 16:57	PJJ	TAL PIT

Client Sample ID: NLF-SS-PHASE1-SP215-050418

Lab Sample ID: 180-77433-16

Date Collected: 05/04/18 13:15

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.14 g	500 mL	244314	05/08/18 17:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C Instrument ID: CHHP9		1	0.125 mL	5 mL	244372	05/09/18 16:13	KLG	TAL PIT
Total/NA	Analysis	2540G Instrument ID: NOEQUIP		1			244436	05/09/18 13:39	BSH	TAL PIT

Client Sample ID: NLF-SS-PHASE1-SP215-050418

Lab Sample ID: 180-77433-16

Date Collected: 05/04/18 13:15

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0034 g	5 mL	244128	05/07/18 07:32	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C Instrument ID: CHHP4		10	0.1 mL	5 mL	244343	05/09/18 15:27	PJJ	TAL PIT

Client Sample ID: NLF-SS-PHASE1-SP216-050418

Lab Sample ID: 180-77433-17

Date Collected: 05/04/18 13:21

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.25 g	500 mL	244314	05/08/18 17:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C Instrument ID: CHHP9		1	0.125 mL	5 mL	244372	05/09/18 16:35	KLG	TAL PIT
Total/NA	Analysis	2540G Instrument ID: NOEQUIP		1			244436	05/09/18 13:39	BSH	TAL PIT

Client Sample ID: NLF-SS-PHASE1-SP216-050418

Lab Sample ID: 180-77433-17

Date Collected: 05/04/18 13:21

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0000 g	5 mL	244130	05/07/18 07:37	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C Instrument ID: CHHP4		100	0.1 mL	5 mL	244465	05/10/18 13:31	PJJ	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP217-050418						Lab Sample ID: 180-77433-18			
Date Collected: 05/04/18 13:27						Matrix: Solid			
Date Received: 05/05/18 10:30									

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.24 g	500 mL	244314	05/08/18 17:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C		1	0.125 mL	5 mL	244372	05/09/18 16:57	KLG	TAL PIT
Total/NA	Analysis	2540G		1			244436	05/09/18 13:39	BSH	TAL PIT
		Instrument ID: CHHP9 Instrument ID: NOEQUIP								

Client Sample ID: NLF-SS-PHASE1-SP217-050418						Lab Sample ID: 180-77433-18			
Date Collected: 05/04/18 13:27						Matrix: Solid			
Date Received: 05/05/18 10:30						Percent Solids: 74.1			

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0025 g	5 mL	244130	05/07/18 07:37	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		50	0.1 mL	5 mL	244465	05/10/18 13:59	PJJ	TAL PIT
		Instrument ID: CHHP4								

Client Sample ID: NLF-SS-PHASE1-SP218-050418						Lab Sample ID: 180-77433-19			
Date Collected: 05/04/18 13:33						Matrix: Solid			
Date Received: 05/05/18 10:30						Percent Solids: 74.1			

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.50 g	500 mL	244314	05/08/18 17:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C		1	0.125 mL	5 mL	244372	05/09/18 17:19	KLG	TAL PIT

Client Sample ID: NLF-SS-PHASE1-SP218-050418						Lab Sample ID: 180-77433-19			
Date Collected: 05/04/18 13:33						Matrix: Solid			
Date Received: 05/05/18 10:30						Percent Solids: 75.2			

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0034 g	5 mL	244130	05/07/18 07:37	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		1	0.1 mL	5 mL	244465	05/10/18 14:27	PJJ	TAL PIT

Client Sample ID: NLF-SS-PHASE1-SP219-050418						Lab Sample ID: 180-77433-20			
Date Collected: 05/04/18 13:44						Matrix: Solid			
Date Received: 05/05/18 10:30									

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.27 g	500 mL	244314	05/08/18 17:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C		1	0.125 mL	5 mL	244372	05/09/18 17:41	KLG	TAL PIT

Client Sample ID: NLF-SS-PHASE1-SP219-050418						Lab Sample ID: 180-77433-20			
Date Collected: 05/04/18 13:44						Matrix: Solid			
Date Received: 05/05/18 10:30									

TestAmerica Pittsburgh

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP219-050418

Lab Sample ID: 180-77433-20

Matrix: Solid

Date Collected: 05/04/18 13:34

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			244436	05/09/18 13:39	BSH	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: NLF-SS-PHASE1-SP219-050418

Lab Sample ID: 180-77433-20

Matrix: Solid

Date Collected: 05/04/18 13:34

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.1003 g	5 mL	244130	05/07/18 07:37	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		250	0.1 mL	5 mL	244465	05/10/18 14:56	PJJ	TAL PIT
Instrument ID: CHHP4										

Client Sample ID: NLF-SS-PHASE1-SP220-050418

Lab Sample ID: 180-77433-21

Matrix: Solid

Date Collected: 05/04/18 13:45

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.22 g	500 mL	244100	05/06/18 14:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C		1	0.125 mL	5 mL	244132	05/07/18 13:06	KLG	TAL PIT
Total/NA	Analysis	2540G		1			244436	05/09/18 13:39	BSH	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: NLF-SS-PHASE1-SP220-050418

Lab Sample ID: 180-77433-21

Matrix: Solid

Date Collected: 05/04/18 13:45

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0043 g	5 mL	244130	05/07/18 07:37	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		1	0.1 mL	5 mL	244465	05/10/18 12:57	PJJ	TAL PIT
Instrument ID: CHHP4										

Client Sample ID: NLF-SS-PHASE1-SP221-050418

Lab Sample ID: 180-77433-22

Matrix: Solid

Date Collected: 05/04/18 13:55

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.13 g	500 mL	244314	05/08/18 17:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C		1	0.125 mL	5 mL	244372	05/09/18 18:03	KLG	TAL PIT
Total/NA	Analysis	2540G		1			244436	05/09/18 13:39	BSH	TAL PIT
Instrument ID: NOEQUIP										

TestAmerica Pittsburgh

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP221-050418 **Lab Sample ID: 180-77433-22**

Date Collected: 05/04/18 13:55

Date Received: 05/05/18 10:30

Matrix: Solid

Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0010 g	5 mL	244130	05/07/18 07:37	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		1	0.1 mL	5 mL	244465	05/10/18 15:24	PJJ	TAL PIT

Instrument ID: CHHP4

Client Sample ID: NLF-SS-PHASE1-SP222-050418 **Lab Sample ID: 180-77433-23**

Date Collected: 05/04/18 14:01

Date Received: 05/05/18 10:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.10 g	500 mL	244314	05/08/18 17:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C		1	0.125 mL	5 mL	244372	05/09/18 18:25	KLG	TAL PIT
Total/NA	Analysis	2540G		1			244436	05/09/18 13:39	BSH	TAL PIT

Instrument ID: CHHP9

Instrument ID: NOEQUIP

Client Sample ID: NLF-SS-PHASE1-SP222-050418 **Lab Sample ID: 180-77433-23**

Date Collected: 05/04/18 14:01

Date Received: 05/05/18 10:30

Matrix: Solid

Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0000 g	5 mL	244130	05/07/18 07:37	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		10	0.1 mL	5 mL	244605	05/11/18 11:16	PJJ	TAL PIT

Instrument ID: CHHP4

Client Sample ID: NLF-SS-PHASE1-SP223-050418 **Lab Sample ID: 180-77433-24**

Date Collected: 05/04/18 14:07

Date Received: 05/05/18 10:30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.08 g	500 mL	244314	05/08/18 17:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C		1	0.125 mL	5 mL	244372	05/09/18 18:47	KLG	TAL PIT
Total/NA	Analysis	2540G		1			244436	05/09/18 13:39	BSH	TAL PIT

Instrument ID: CHHP9

Instrument ID: NOEQUIP

Client Sample ID: NLF-SS-PHASE1-SP223-050418 **Lab Sample ID: 180-77433-24**

Date Collected: 05/04/18 14:07

Date Received: 05/05/18 10:30

Matrix: Solid

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0003 g	5 mL	244130	05/07/18 07:37	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		25	0.1 mL	5 mL	244465	05/10/18 18:13	PJJ	TAL PIT

Instrument ID: CHHP4

TestAmerica Pittsburgh

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP224-050418

Lab Sample ID: 180-77433-25

Date Collected: 05/04/18 14:13

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.29 g	500 mL	244314	05/08/18 17:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C Instrument ID: CHHP9		1	0.125 mL	5 mL	244372	05/09/18 19:09	KLG	TAL PIT
Total/NA	Analysis	2540G Instrument ID: NOEQUIP		1			244436	05/09/18 13:39	BSH	TAL PIT

Client Sample ID: NLF-SS-PHASE1-SP224-050418

Lab Sample ID: 180-77433-25

Date Collected: 05/04/18 14:13

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0000 g	5 mL	244130	05/07/18 07:37	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C Instrument ID: CHHP4		100	0.1 mL	5 mL	244465	05/10/18 18:42	PJJ	TAL PIT

Client Sample ID: NLF-SS-PHASE1-SP225-050418

Lab Sample ID: 180-77433-26

Date Collected: 05/04/18 14:19

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	EPA 1311			25.48 g	500 mL	244314	05/08/18 17:00	CMR	TAL PIT
TCLP	Analysis	EPA 8260C Instrument ID: CHHP9		1	0.125 mL	5 mL	244372	05/09/18 19:31	KLG	TAL PIT
Total/NA	Analysis	2540G Instrument ID: NOEQUIP		1			244436	05/09/18 13:39	BSH	TAL PIT

Client Sample ID: NLF-SS-PHASE1-SP225-050418

Lab Sample ID: 180-77433-26

Date Collected: 05/04/18 14:19

Matrix: Solid

Date Received: 05/05/18 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.0000 g	5 mL	244130	05/07/18 07:37	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C Instrument ID: CHHP4		10	0.1 mL	5 mL	244605	05/11/18 11:44	PJJ	TAL PIT

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238. TEL (412)963-7058

TestAmerica Pittsburgh

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Analyst References:

Lab: TAL PIT

Batch Type: Leach

CMR = Carl Reagle

Batch Type: Prep

PJJ = Patrick Journet

Batch Type: Analysis

BSH = Brandon Hough

KLG = Kathy Gordon

PJJ = Patrick Journet

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TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: TB050418

Lab Sample ID: 180-77433-1

Date Collected: 05/04/18 10:05

Matrix: Water

Date Received: 05/05/18 10:30

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/L			05/09/18 14:43	1
Benzene	ND		0.0050	0.0020	mg/L			05/09/18 14:43	1
Bromoform	ND		0.0050	0.0026	mg/L			05/09/18 14:43	1
Bromomethane	ND		0.0050	0.0045	mg/L			05/09/18 14:43	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/L			05/09/18 14:43	1
Carbon disulfide	ND		0.0050	0.0030	mg/L			05/09/18 14:43	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/L			05/09/18 14:43	1
Chlorobenzene	ND		0.0050	0.0016	mg/L			05/09/18 14:43	1
Chlorobromomethane	ND		0.0050	0.0019	mg/L			05/09/18 14:43	1
Chlorodibromomethane	ND		0.0050	0.0024	mg/L			05/09/18 14:43	1
Chloroethane	ND		0.0050	0.0026	mg/L			05/09/18 14:43	1
Chloroform	ND		0.0050	0.0021	mg/L			05/09/18 14:43	1
Chloromethane	ND		0.0050	0.0039	mg/L			05/09/18 14:43	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/L			05/09/18 14:43	1
cis-1,3-Dichloropropene	ND		0.0050	0.0016	mg/L			05/09/18 14:43	1
Cyclohexane	ND		0.0050	0.0012	mg/L			05/09/18 14:43	1
Cyclohexanone	ND		0.10	0.058	mg/L			05/09/18 14:43	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0031	mg/L			05/09/18 14:43	1
1,2-Dibromoethane	ND		0.0050	0.0027	mg/L			05/09/18 14:43	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/L			05/09/18 14:43	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/L			05/09/18 14:43	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/L			05/09/18 14:43	1
Dichlorobromomethane	ND		0.0050	0.0024	mg/L			05/09/18 14:43	1
Dichlorodifluoromethane	ND		0.0050	0.0029	mg/L			05/09/18 14:43	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/L			05/09/18 14:43	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/L			05/09/18 14:43	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/L			05/09/18 14:43	1
1,2-Dichloropropane	ND		0.0050	0.0025	mg/L			05/09/18 14:43	1
1,4-Dioxane	ND		1.0	0.037	mg/L			05/09/18 14:43	1
Ethylbenzene	ND		0.0050	0.0022	mg/L			05/09/18 14:43	1
2-Hexanone	ND		0.0050	0.0042	mg/L			05/09/18 14:43	1
Isopropylbenzene	ND		0.0050	0.0023	mg/L			05/09/18 14:43	1
Methyl acetate	ND		0.025	0.0059	mg/L			05/09/18 14:43	1
Methylcyclohexane	ND		0.0050	0.0021	mg/L			05/09/18 14:43	1
Methylene Chloride	ND		0.0050	0.0024	mg/L			05/09/18 14:43	1
4-Methyl-2-pentanone (MIBK)	ND		0.0050	0.0019	mg/L			05/09/18 14:43	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/L			05/09/18 14:43	1
m-Xylene & p-Xylene	ND		0.0050	0.0019	mg/L			05/09/18 14:43	1
o-Xylene	ND		0.0050	0.0024	mg/L			05/09/18 14:43	1
Styrene	ND		0.0050	0.0013	mg/L			05/09/18 14:43	1
1,1,2,2-Tetrachloroethane	ND		0.0050	0.0030	mg/L			05/09/18 14:43	1
Tetrachloroethene	ND		0.0050	0.0020	mg/L			05/09/18 14:43	1
Tetrahydrofuran	ND		0.010	0.0075	mg/L			05/09/18 14:43	1
Toluene	ND		0.0050	0.0017	mg/L			05/09/18 14:43	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/L			05/09/18 14:43	1
trans-1,3-Dichloropropene	ND		0.0050	0.0017	mg/L			05/09/18 14:43	1
1,2,3-Trichlorobenzene	ND		0.0050	0.0021	mg/L			05/09/18 14:43	1
1,2,4-Trichlorobenzene	ND		0.0050	0.0016	mg/L			05/09/18 14:43	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/L			05/09/18 14:43	1

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TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: TB050418

Lab Sample ID: 180-77433-1

Date Collected: 05/04/18 10:05

Matrix: Water

Date Received: 05/05/18 10:30

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.0050	0.0024	mg/L			05/09/18 14:43	1
Trichloroethene	ND		0.0050	0.0015	mg/L			05/09/18 14:43	1
Trichlorofluoromethane	ND		0.0050	0.0015	mg/L			05/09/18 14:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0050	0.0019	mg/L			05/09/18 14:43	1
Vinyl chloride	ND		0.0050	0.0037	mg/L			05/09/18 14:43	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sur)	93			65 - 116				05/09/18 14:43	1
Dibromofluoromethane (Sur)	106			72 - 120				05/09/18 14:43	1
1,2-Dichloroethane-d4 (Sur)	111			64 - 137				05/09/18 14:43	1
Toluene-d8 (Sur)	82			82 - 132				05/09/18 14:43	1

Client Sample ID: NLF-SS-PHASE1-SP201-050418

Lab Sample ID: 180-77433-2

Date Collected: 05/04/18 10:10

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.0

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	F1	1.3	0.21	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
Benzene	ND		0.33	0.13	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
Bromoform	ND		0.33	0.17	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
Bromomethane	ND		0.33	0.30	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
2-Butanone (MEK)	1.2		0.33	0.19	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
Carbon disulfide	ND		0.33	0.20	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
Carbon tetrachloride	ND		0.33	0.22	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
Chlorobenzene	ND		0.33	0.10	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
Chlorobromomethane	ND		0.33	0.13	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
Chlorodibromomethane	ND		0.33	0.16	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
Chloroethane	ND		0.33	0.17	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
Chloroform	ND		0.33	0.14	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
Chloromethane	ND		0.33	0.25	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
cis-1,2-Dichloroethene	ND		0.33	0.10	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
cis-1,3-Dichloropropene	ND		0.33	0.11	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
Cyclohexane	ND		0.33	0.080	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
1,2-Dibromo-3-Chloropropane	ND		0.33	0.20	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
1,2-Dibromoethane	ND		0.33	0.18	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
1,2-Dichlorobenzene	ND		0.33	0.26	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
1,3-Dichlorobenzene	ND		0.33	0.10	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
1,4-Dichlorobenzene	ND		0.33	0.087	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
Dichlorobromomethane	ND		0.33	0.16	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
Dichlorodifluoromethane	ND		0.33	0.19	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
1,1-Dichloroethane	ND		0.33	0.12	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
1,2-Dichloroethane	ND		0.33	0.086	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
1,1-Dichloroethene	ND		0.33	0.19	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
1,2-Dichloropropane	ND		0.33	0.16	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
1,4-Dioxane	ND	F2	66	2.4	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
Ethylbenzene	ND		0.33	0.14	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
2-Hexanone	ND		0.33	0.28	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
Isopropylbenzene	ND		0.33	0.15	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1
Methyl acetate	ND		1.6	0.39	mg/Kg	✉	05/07/18 07:32	05/08/18 12:43	1

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP201-050418

Lab Sample ID: 180-77433-2

Date Collected: 05/04/18 10:10

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.0

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	ND		0.33	0.14	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
Methylene Chloride	ND F1		0.33	0.16	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
4-Methyl-2-pentanone (MIBK)	ND		0.33	0.12	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
Methyl tert-butyl ether	ND		0.33	0.24	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
m-Xylene & p-Xylene	ND		0.33	0.12	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
o-Xylene	ND		0.33	0.16	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
Styrene	ND		0.33	0.088	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
1,1,2,2-Tetrachloroethane	ND		0.33	0.20	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
Tetrachloroethene	ND		0.33	0.13	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
Tetrahydrofuran	ND		0.66	0.49	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
Toluene	ND		0.33	0.11	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
trans-1,2-Dichloroethene	ND		0.33	0.17	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
trans-1,3-Dichloropropene	ND		0.33	0.11	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
1,2,3-Trichlorobenzene	ND F2 F1		0.33	0.14	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
1,2,4-Trichlorobenzene	ND F2 F1		0.33	0.11	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
1,1,1-Trichloroethane	ND		0.33	0.17	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
1,1,2-Trichloroethane	ND		0.33	0.16	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
Trichloroethene	0.12 J		0.33	0.099	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
Trichlorofluoromethane	ND		0.33	0.096	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.33	0.13	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
Vinyl chloride	ND		0.33	0.24	mg/Kg	o	05/07/18 07:32	05/08/18 12:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sur)	91		62 - 124				05/07/18 07:32	05/08/18 12:43	1
Dibromofluoromethane (Sur)	97		61 - 120				05/07/18 07:32	05/08/18 12:43	1
1,2-Dichloroethane-d4 (Sur)	108		63 - 133				05/07/18 07:32	05/08/18 12:43	1
Toluene-d8 (Sur)	86		68 - 130				05/07/18 07:32	05/08/18 12:43	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L			05/07/18 14:56	1
2-Butanone (MEK)	ND		0.20	0.12	mg/L			05/07/18 14:56	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/07/18 14:56	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/07/18 14:56	1
Chloroform	ND		0.20	0.085	mg/L			05/07/18 14:56	1
1,2-Dichloroethane	ND		0.20	0.058	mg/L			05/07/18 14:56	1
1,1-Dichloroethene	ND		0.20	0.11	mg/L			05/07/18 14:56	1
Tetrachloroethene	ND		0.20	0.080	mg/L			05/07/18 14:56	1
Trichloroethene	ND		0.20	0.060	mg/L			05/07/18 14:56	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/07/18 14:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sur)	87		65 - 116				05/07/18 14:56	1	
Dibromofluoromethane (Sur)	97		72 - 120				05/07/18 14:56	1	
1,2-Dichloroethane-d4 (Sur)	115		64 - 137				05/07/18 14:56	1	
Toluene-d8 (Sur)	99		82 - 132				05/07/18 14:56	1	

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.0		0.1	0.1	%			05/09/18 13:07	1

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP201-050418

Lab Sample ID: 180-77433-2

Date Collected: 05/04/18 10:10

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.0

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	76.0		0.1	0.1	%			05/09/18 13:07	1

Client Sample ID: NLF-SS-PHASE1-SP202-050418

Lab Sample ID: 180-77433-3

Date Collected: 05/04/18 10:20

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 74.6

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		1.3	0.21	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Benzene	ND		0.34	0.13	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Bromoform	ND		0.34	0.18	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Bromomethane	ND		0.34	0.30	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
2-Butanone (MEK)	2.3		0.34	0.19	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Carbon disulfide	ND		0.34	0.20	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Carbon tetrachloride	ND		0.34	0.22	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Chlorobenzene	ND		0.34	0.11	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Chlorobromomethane	ND		0.34	0.13	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Chlorodibromomethane	ND		0.34	0.16	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Chloroethane	ND		0.34	0.17	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Chloroform	ND		0.34	0.14	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Chloromethane	ND		0.34	0.26	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
cis-1,2-Dichloroethene	ND		0.34	0.11	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
cis-1,3-Dichloropropene	ND		0.34	0.11	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Cyclohexane	ND		0.34	0.082	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
1,2-Dibromo-3-Chloropropane	ND		0.34	0.21	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
1,2-Dibromoethane	ND		0.34	0.18	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
1,2-Dichlorobenzene	ND		0.34	0.27	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
1,3-Dichlorobenzene	ND		0.34	0.11	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
1,4-Dichlorobenzene	ND		0.34	0.068	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Dichlorobromomethane	ND		0.34	0.16	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Dichlorodifluoromethane	ND		0.34	0.20	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
1,1-Dichloroethane	ND		0.34	0.12	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
1,2-Dichloroethane	ND		0.34	0.097	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
1,1-Dichloroethene	ND		0.34	0.19	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
1,2-Dichloropropane	ND		0.34	0.16	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
1,4-Dioxane	ND		67	2.5	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Ethylbenzene	ND		0.34	0.14	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
2-Hexanone	ND		0.34	0.28	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Isopropylbenzene	ND		0.34	0.16	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Methyl acetate	ND		1.7	0.40	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Methylcyclohexane	ND		0.34	0.14	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Methylene Chloride	ND		0.34	0.16	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
4-Methyl-2-pentanone (MIBK)	ND		0.34	0.12	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Methyl tert-butyl ether	ND		0.34	0.25	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
m-Xylene & p-Xylene	ND		0.34	0.13	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
o-Xylene	ND		0.34	0.16	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Styrene	ND		0.34	0.089	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
1,1,2,2-Tetrachloroethane	ND		0.34	0.20	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Tetrachloroethene	ND		0.34	0.13	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1
Tetrahydrofuran	ND		0.67	0.50	mg/Kg	✉	05/07/18 07:32	05/08/18 13:15	1

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TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP202-050418

Lab Sample ID: 180-77433-3

Date Collected: 05/04/18 10:20

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 74.6

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Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.34	0.11	mg/Kg	♂	05/07/18 07:32	05/08/18 13:15	1
trans-1,2-Dichloroethylene	ND		0.34	0.17	mg/Kg	♂	05/07/18 07:32	05/08/18 13:15	1
trans-1,3-Dichloropropene	ND		0.34	0.12	mg/Kg	♂	05/07/18 07:32	05/08/18 13:15	1
1,2,3-Trichlorobenzene	ND		0.34	0.14	mg/Kg	♂	05/07/18 07:32	05/08/18 13:15	1
1,2,4-Trichlorobenzene	ND		0.34	0.11	mg/Kg	♂	05/07/18 07:32	05/08/18 13:15	1
1,1,1-Trichloroethane	ND		0.34	0.17	mg/Kg	♂	05/07/18 07:32	05/08/18 13:15	1
1,1,2-Trichloroethane	ND		0.34	0.16	mg/Kg	♂	05/07/18 07:32	05/08/18 13:15	1
Trichloroethylene	ND		0.34	0.10	mg/Kg	♂	05/07/18 07:32	05/08/18 13:15	1
Trichlorofluoromethane	ND		0.34	0.098	mg/Kg	♂	05/07/18 07:32	05/08/18 13:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.34	0.13	mg/Kg	♂	05/07/18 07:32	05/08/18 13:15	1
Vinyl chloride	ND		0.34	0.25	mg/Kg	♂	05/07/18 07:32	05/08/18 13:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sur)	91		62 - 124				05/07/18 07:32	05/08/18 13:15	1
Dibromofluoromethane (Sur)	93		61 - 120				05/07/18 07:32	05/08/18 13:15	1
1,2-Dichloroethane-d4 (Sur)	106		63 - 133				05/07/18 07:32	05/08/18 13:15	1
Toluene-d8 (Sur)	85		68 - 130				05/07/18 07:32	05/08/18 13:15	1

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Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L			05/07/18 15:18	1
2-Butanone (MEK)	0.18	J	0.20	0.12	mg/L			05/07/18 15:18	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/07/18 15:18	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/07/18 15:18	1
Chloroform	ND		0.20	0.085	mg/L			05/07/18 15:18	1
1,2-Dichloroethane	ND		0.20	0.058	mg/L			05/07/18 15:18	1
1,1-Dichloroethene	ND		0.20	0.11	mg/L			05/07/18 15:18	1
Tetrachloroethylene	ND		0.20	0.080	mg/L			05/07/18 15:18	1
Trichloroethylene	ND		0.20	0.060	mg/L			05/07/18 15:18	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/07/18 15:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sur)	84		65 - 116				05/07/18 15:18		1
Dibromofluoromethane (Sur)	102		72 - 120				05/07/18 15:18		1
1,2-Dichloroethane-d4 (Sur)	119		64 - 137				05/07/18 15:18		1
Toluene-d8 (Sur)	96		82 - 132				05/07/18 15:18		1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.4		0.1	0.1	%			05/09/18 13:07	1
Percent Solids	74.6		0.1	0.1	%			05/09/18 13:07	1

Client Sample ID: NLF-SS-PHASE1-SP203-050418

Lab Sample ID: 180-77433-4

Date Collected: 05/04/18 10:27

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 78.6

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Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	14	J	25	4.0	mg/Kg	♂	05/07/18 07:32	05/08/18 15:37	20
Benzene	ND		6.4	2.5	mg/Kg	♂	05/07/18 07:32	05/08/18 15:37	20
Bromoform	ND		6.4	3.3	mg/Kg	♂	05/07/18 07:32	05/08/18 15:37	20

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP203-050418

Lab Sample ID: 180-77433-4

Date Collected: 05/04/18 10:27

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 78.6

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		6.4	5.7	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
2-Butanone (MEK)	110		6.4	3.7	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Carbon disulfide	ND		6.4	3.8	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Carbon tetrachloride	ND		6.4	4.2	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Chlorobenzene	ND		6.4	2.0	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Chlorobromomethane	ND		6.4	2.4	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Chlorodibromomethane	ND		6.4	3.1	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Chloroethane	ND		6.4	3.3	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Chloroform	ND		6.4	2.7	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Chloromethane	ND		6.4	4.9	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
cis-1,2-Dichloroethene	ND		6.4	2.0	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
cis-1,3-Dichloropropene	ND		6.4	2.0	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Cyclohexane	ND		6.4	1.6	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
1,2-Dibromo-3-Chloropropane	ND		6.4	3.9	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
1,2-Dibromoethane	ND		6.4	3.5	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
1,2-Dichlorobenzene	ND		6.4	5.1	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
1,3-Dichlorobenzene	ND		6.4	2.0	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
1,4-Dichlorobenzene	ND		6.4	1.3	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Dichlorobromomethane	ND		6.4	3.0	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Dichlorodifluoromethane	ND		6.4	3.7	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
1,1-Dichloroethane	ND		6.4	2.3	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
1,2-Dichloroethane	ND		6.4	1.8	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
1,1-Dichloroethene	ND		6.4	3.6	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
1,2-Dichloropropane	ND		6.4	3.1	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
1,4-Dioxane	ND		1300	47	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Ethylbenzene	ND		6.4	2.7	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
2-Hexanone	36		6.4	5.3	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Isopropylbenzene	ND		6.4	2.9	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Methyl acetate	ND		32	7.5	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Methylcyclohexane	ND		6.4	2.7	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Methylene Chloride	ND		6.4	3.0	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
4-Methyl-2-pentanone (MIBK)	6.6		6.4	2.4	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Methyl tert-butyl ether	ND		6.4	4.7	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
m-Xylene & p-Xylene	ND		6.4	2.4	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
o-Xylene	ND		6.4	3.1	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Styrene	ND		6.4	1.7	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
1,1,2,2-Tetrachloroethane	ND		6.4	3.8	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Tetrachloroethene	ND		6.4	2.5	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Tetrahydrofuran	15		13	9.5	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Toluene	ND		6.4	2.1	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
trans-1,2-Dichloroethene	ND		6.4	3.2	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
trans-1,3-Dichloropropene	ND		6.4	2.2	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
1,2,3-Trichlorobenzene	ND		6.4	2.6	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
1,2,4-Trichlorobenzene	ND		6.4	2.0	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
1,1,1-Trichloroethane	ND		6.4	3.2	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
1,1,2-Trichloroethane	ND		6.4	3.1	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Trichloroethene	ND		6.4	1.9	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Trichlorofluoromethane	ND		6.4	1.9	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.4	2.4	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP203-050418

Lab Sample ID: 180-77433-4

Date Collected: 05/04/18 10:27

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 78.6

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		6.4	4.7	mg/Kg	☒	05/07/18 07:32	05/08/18 15:37	20
Surrogate									
4-Bromofluorobenzene (Sur)	92		62 - 124				05/07/18 07:32	05/08/18 15:37	20
Dibromofluoromethane (Sur)	97		61 - 120				05/07/18 07:32	05/08/18 15:37	20
1,2-Dichloroethane-d4 (Sur)	105		63 - 133				05/07/18 07:32	05/08/18 15:37	20
Toluene-d8 (Sur)	87		68 - 130				05/07/18 07:32	05/08/18 15:37	20

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L			05/07/18 15:40	1
2-Butanone (MEK)	0.57		0.20	0.12	mg/L			05/07/18 15:40	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/07/18 15:40	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/07/18 15:40	1
Chloroform	ND		0.20	0.085	mg/L			05/07/18 15:40	1
1,2-Dichloroethane	ND		0.20	0.058	mg/L			05/07/18 15:40	1
1,1-Dichloroethene	ND		0.20	0.11	mg/L			05/07/18 15:40	1
Tetrachloroethene	ND		0.20	0.080	mg/L			05/07/18 15:40	1
Trichloroethene	ND		0.20	0.060	mg/L			05/07/18 15:40	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/07/18 15:40	1
Surrogate									
4-Bromofluorobenzene (Sur)	82		65 - 116				05/07/18 15:40		1
Dibromofluoromethane (Sur)	100		72 - 120				05/07/18 15:40		1
1,2-Dichloroethane-d4 (Sur)	118		64 - 137				05/07/18 15:40		1
Toluene-d8 (Sur)	107		82 - 132				05/07/18 15:40		1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.4		0.1	0.1	%			05/09/18 13:07	1
Percent Solids	78.6		0.1	0.1	%			05/09/18 13:07	1

Client Sample ID: NLF-SS-PHASE1-SP204-050418

Lab Sample ID: 180-77433-5

Date Collected: 05/04/18 10:33

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 84.7

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		30	4.7	mg/Kg	☒	05/07/18 07:32	05/09/18 12:09	25
Benzene	ND		7.4	2.9	mg/Kg	☒	05/07/18 07:32	05/09/18 12:09	25
Bromoform	ND		7.4	3.9	mg/Kg	☒	05/07/18 07:32	05/09/18 12:09	25
Bromomethane	ND		7.4	6.6	mg/Kg	☒	05/07/18 07:32	05/09/18 12:09	25
2-Butanone (MEK)	170		7.4	4.3	mg/Kg	☒	05/07/18 07:32	05/09/18 12:09	25
Carbon disulfide	ND		7.4	4.4	mg/Kg	☒	05/07/18 07:32	05/09/18 12:09	25
Carbon tetrachloride	ND		7.4	4.9	mg/Kg	☒	05/07/18 07:32	05/09/18 12:09	25
Chlorobenzene	ND		7.4	2.3	mg/Kg	☒	05/07/18 07:32	05/09/18 12:09	25
Chlorobromomethane	ND		7.4	2.8	mg/Kg	☒	05/07/18 07:32	05/09/18 12:09	25
Chlorodibromomethane	ND		7.4	3.6	mg/Kg	☒	05/07/18 07:32	05/09/18 12:09	25
Chloroethane	ND		7.4	3.8	mg/Kg	☒	05/07/18 07:32	05/09/18 12:09	25
Chloroform	ND		7.4	3.1	mg/Kg	☒	05/07/18 07:32	05/09/18 12:09	25
Chloromethane	ND		7.4	5.7	mg/Kg	☒	05/07/18 07:32	05/09/18 12:09	25

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP204-050418

Lab Sample ID: 180-77433-5

Date Collected: 05/04/18 10:33

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 84.7

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		7.4	2.3	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
cis-1,3-Dichloropropene	ND		7.4	2.4	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
Cyclohexane	ND		7.4	1.8	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
1,2-Dibromo-3-Chloropropane	ND		7.4	4.5	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
1,2-Dibromoethane	ND		7.4	4.0	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
1,2-Dichlorobenzene	ND		7.4	5.9	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
1,3-Dichlorobenzene	ND		7.4	2.4	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
1,4-Dichlorobenzene	ND		7.4	1.5	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
Dichlorobromomethane	ND		7.4	3.5	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
Dichlorodifluoromethane	ND		7.4	4.3	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
1,1-Dichloroethane	ND		7.4	2.7	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
1,2-Dichloroethane	ND		7.4	2.1	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
1,1-Dichloroethene	ND		7.4	4.2	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
1,2-Dichloropropane	ND		7.4	3.6	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
1,4-Dioxane	ND		1500	54	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
Ethylbenzene	ND		7.4	3.2	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
2-Hexanone	ND		7.4	6.2	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
Isopropylbenzene	ND		7.4	3.4	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
Methyl acetate	ND		37	8.7	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
Methylcyclohexane	ND		7.4	3.1	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
Methylene Chloride	ND		7.4	3.5	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
4-Methyl-2-pentanone (MIBK)	ND		7.4	2.7	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
Methyl tert-butyl ether	ND		7.4	5.4	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
m-Xylene & p-Xylene	ND		7.4	2.8	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
o-Xylene	ND		7.4	3.6	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
Styrene	ND		7.4	2.0	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
1,1,2,2-Tetrachloroethane	ND		7.4	4.4	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
Tetrachloroethene	ND		7.4	3.0	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
Tetrahydrofuran	ND		15	11	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
Toluene	ND		7.4	2.5	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
trans-1,2-Dichloroethene	ND		7.4	3.7	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
trans-1,3-Dichloropropene	ND		7.4	2.5	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
1,2,3-Trichlorobenzene	ND		7.4	3.1	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
1,2,4-Trichlorobenzene	ND		7.4	2.4	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
1,1,1-Trichloroethane	ND		7.4	3.7	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
1,1,2-Trichloroethane	ND		7.4	3.5	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
Trichloroethene	ND		7.4	2.2	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
Trichlorofluoromethane	ND *		7.4	2.1	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.4	2.8	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25
Vinyl chloride	ND		7.4	5.4	mg/Kg	✉	05/07/18 07:32	05/09/18 12:09	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sur)	96		62 - 124	05/07/18 07:32	05/09/18 12:09	25
Dibromofluoromethane (Sur)	96		61 - 120	05/07/18 07:32	05/09/18 12:09	25
1,2-Dichloroethane-d4 (Sur)	114		63 - 133	05/07/18 07:32	05/09/18 12:09	25
Toluene-d8 (Sur)	83		68 - 130	05/07/18 07:32	05/09/18 12:09	25

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L		05/07/18 16:02		1

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP204-050418

Lab Sample ID: 180-77433-5

Date Collected: 05/04/18 10:33

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 84.7

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	0.17	J	0.20	0.12	mg/L			05/07/18 16:02	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/07/18 16:02	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/07/18 16:02	1
Chloroform	ND		0.20	0.085	mg/L			05/07/18 16:02	1
1,2-Dichloroethane	ND		0.20	0.058	mg/L			05/07/18 16:02	1
1,1-Dichloroethene	ND		0.20	0.11	mg/L			05/07/18 16:02	1
Tetrachloroethene	ND		0.20	0.080	mg/L			05/07/18 16:02	1
Trichloroethene	ND		0.20	0.060	mg/L			05/07/18 16:02	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/07/18 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		65-116					05/07/18 16:02	1
Dibromofluoromethane (Surr)	101		72-120					05/07/18 16:02	1
1,2-Dichloroethane-d4 (Surr)	121		64-137					05/07/18 16:02	1
Toluene-d8 (Surr)	91		82-132					05/07/18 16:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.3		0.1	0.1	%			05/09/18 13:07	1
Percent Solids	84.7		0.1	0.1	%			05/09/18 13:07	1

Client Sample ID: NLF-SS-PHASE1-SP205-050418

Lab Sample ID: 180-77433-6

Date Collected: 05/04/18 10:34

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 75.6

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		26	4.2	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
Benzene	ND		6.6	2.6	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
Bromoform	ND		6.6	3.5	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
Bromomethane	ND		6.6	5.9	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
2-Butanone (MEK)	28		6.6	3.8	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
Carbon disulfide	ND		6.6	4.0	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
Carbon tetrachloride	ND		6.6	4.4	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
Chlorobenzene	ND		6.6	2.1	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
Chlorobromomethane	ND		6.6	2.5	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
Chlorodibromomethane	ND		6.6	3.2	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
Chloroethane	ND		6.6	3.4	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
Chloroform	ND		6.6	2.8	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
Chloromethane	ND		6.6	5.1	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
cis-1,2-Dichloroethene	ND		6.6	2.1	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
cis-1,3-Dichloropropene	ND		6.6	2.1	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
Cyclohexane	ND		6.6	1.6	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
1,2-Dibromo-3-Chloropropane	ND		6.6	4.1	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
1,2-Dibromoethane	ND		6.6	3.6	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
1,2-Dichlorobenzene	ND		6.6	5.3	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
1,3-Dichlorobenzene	ND		6.6	2.1	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
1,4-Dichlorobenzene	ND		6.6	1.3	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
Dichlorobromomethane	ND		6.6	3.1	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20
Dichlorodifluoromethane	ND		6.6	3.9	mg/Kg	✉	05/07/18 07:32	05/08/18 17:52	20

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP205-050418

Lab Sample ID: 180-77433-6

Date Collected: 05/04/18 10:34

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 75.6

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		6.6	2.4	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
1,2-Dichloroethane	ND		6.6	1.9	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
1,1-Dichloroethene	ND		6.6	3.8	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
1,2-Dichloropropane	ND		6.6	3.2	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
1,4-Dioxane	ND		1300	48	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
Ethylbenzene	ND		6.6	2.8	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
2-Hexanone	ND		6.6	5.5	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
Isopropylbenzene	ND		6.6	3.1	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
Methyl acetate	ND		33	7.8	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
Methylcyclohexane	ND		6.6	2.8	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
Methylene Chloride	ND		6.6	3.1	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
4-Methyl-2-pentanone (MIBK)	ND		6.6	2.5	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
Methyl tert-butyl ether	ND		6.6	4.9	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
m-Xylene & p-Xylene	ND		6.6	2.5	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
o-Xylene	ND		6.6	3.2	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
Styrene	ND		6.6	1.8	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
1,1,2,2-Tetrachloroethane	ND		6.6	3.9	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
Tetrachloroethene	ND		6.6	2.6	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
Tetrahydrofuran	ND		13	9.9	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
Toluene	ND		6.6	2.2	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
trans-1,2-Dichloroethene	ND		6.6	3.4	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
trans-1,3-Dichloropropene	ND		6.6	2.3	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
1,2,3-Trichlorobenzene	ND		6.6	2.7	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
1,2,4-Trichlorobenzene	ND		6.6	2.1	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
1,1,1-Trichloroethane	ND		6.6	3.3	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
1,1,2-Trichloroethane	ND		6.6	3.2	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
Trichloroethene	ND		6.6	2.0	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
Trichlorofluoromethane	ND		6.6	1.9	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.6	2.5	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20
Vinyl chloride	ND		6.6	4.9	mg/Kg	☒	05/07/18 07:32	05/08/18 17:52	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sur)	89		62 - 124		05/07/18 07:32	05/08/18 17:52
Dibromofluoromethane (Sur)	91		61 - 120		05/07/18 07:32	05/08/18 17:52
1,2-Dichloroethane-d4 (Sur)	104		63 - 133		05/07/18 07:32	05/08/18 17:52
Toluene-d8 (Sur)	84		68 - 130		05/07/18 07:32	05/08/18 17:52

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L			05/07/18 16:24	1
2-Butanone (MEK)	0.33		0.20	0.12	mg/L			05/07/18 16:24	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/07/18 16:24	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/07/18 16:24	1
Chloroform	ND		0.20	0.085	mg/L			05/07/18 16:24	1
1,2-Dichloroethane	ND		0.20	0.058	mg/L			05/07/18 16:24	1
1,1-Dichloroethene	ND		0.20	0.11	mg/L			05/07/18 16:24	1
Tetrachloroethene	ND		0.20	0.080	mg/L			05/07/18 16:24	1
Trichloroethene	ND		0.20	0.060	mg/L			05/07/18 16:24	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/07/18 16:24	1

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP205-050418

Lab Sample ID: 180-77433-6

Date Collected: 05/04/18 10:34

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 75.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		65 - 116		05/07/18 16:24	1
Dibromofluoromethane (Surr)	99		72 - 120		05/07/18 16:24	1
1,2-Dichloroethane-d4 (Surr)	117		64 - 137		05/07/18 16:24	1
Toluene-d8 (Surr)	99		82 - 132		05/07/18 16:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.4		0.1	0.1	%			05/09/18 13:07	1
Percent Solids	75.6		0.1	0.1	%			05/09/18 13:07	1

Client Sample ID: NLF-SS-PHASE1-SP206-050418

Lab Sample ID: 180-77433-7

Date Collected: 05/04/18 10:45

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 81.9

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		30	4.8	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
Benzene	ND		7.6	3.0	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
Bromoform	ND		7.6	4.0	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
Bromomethane	ND		7.6	6.9	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
2-Butanone (MEK)	180		7.6	4.4	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
Carbon disulfide	ND		7.6	4.6	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
Carbon tetrachloride	ND		7.6	5.1	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
Chlorobenzene	ND		7.6	2.4	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
Chlorobromomethane	ND		7.6	2.9	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
Chlorodibromomethane	ND		7.6	3.7	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
Chloroethane	ND		7.6	3.9	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
Chloroform	ND		7.6	3.2	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
Chloromethane	ND		7.6	5.9	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
cis-1,2-Dichloroethene	ND		7.6	2.4	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
cis-1,3-Dichloropropene	ND		7.6	2.4	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
Cyclohexane	ND		7.6	1.9	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
1,2-Dibromo-3-Chloropropane	ND		7.6	4.7	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
1,2-Dibromoethane	ND		7.6	4.2	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
1,2-Dichlorobenzene	ND		7.6	6.1	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
1,3-Dichlorobenzene	ND		7.6	2.4	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
1,4-Dichlorobenzene	ND		7.6	1.6	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
Dichlorobromomethane	ND		7.6	3.6	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
Dichlorodifluoromethane	ND		7.6	4.4	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
1,1-Dichloroethane	ND		7.6	2.8	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
1,2-Dichloroethane	ND		7.6	2.2	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
1,1-Dichloroethene	ND		7.6	4.3	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
1,2-Dichloropropane	ND		7.6	3.7	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
1,4-Dioxane	ND		1500	56	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
Ethylbenzene	ND		7.6	3.3	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
2-Hexanone	ND		7.6	6.4	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
Isopropylbenzene	ND		7.6	3.5	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
Methyl acetate	ND		38	9.0	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
Methylcyclohexane	ND		7.6	3.2	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25
Methylene Chloride	ND		7.6	3.6	mg/Kg	☒	05/07/18 07:32	05/09/18 12:38	25

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP206-050418

Lab Sample ID: 180-77433-7

Date Collected: 05/04/18 10:45

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 81.9

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		7.6	2.8	mg/Kg	◊	05/07/18 07:32	05/09/18 12:38	25
Methyl tert-butyl ether	ND		7.6	5.6	mg/Kg	◊	05/07/18 07:32	05/09/18 12:38	25
m-Xylene & p-Xylene	ND		7.6	2.9	mg/Kg	◊	05/07/18 07:32	05/09/18 12:38	25
o-Xylene	ND		7.6	3.7	mg/Kg	◊	05/07/18 07:32	05/09/18 12:38	25
Styrene	ND		7.6	2.0	mg/Kg	◊	05/07/18 07:32	05/09/18 12:38	25
1,1,2,2-Tetrachloroethane	ND		7.6	4.6	mg/Kg	◊	05/07/18 07:32	05/09/18 12:38	25
Tetrachloroethene	ND		7.6	3.1	mg/Kg	◊	05/07/18 07:32	05/09/18 12:38	25
Tetrahydrofuran	ND		15	11	mg/Kg	◊	05/07/18 07:32	05/09/18 12:38	25
Toluene	ND		7.6	2.6	mg/Kg	◊	05/07/18 07:32	05/09/18 12:38	25
trans-1,2-Dichloroethylene	ND		7.6	3.9	mg/Kg	◊	05/07/18 07:32	05/09/18 12:38	25
trans-1,3-Dichloropropene	ND		7.6	2.6	mg/Kg	◊	05/07/18 07:32	05/09/18 12:38	25
1,2,3-Trichlorobenzene	ND		7.6	3.2	mg/Kg	◊	05/07/18 07:32	05/09/18 12:38	25
1,2,4-Trichlorobenzene	ND		7.6	2.5	mg/Kg	◊	05/07/18 07:32	05/09/18 12:38	25
1,1,1-Trichloroethane	ND		7.6	3.8	mg/Kg	◊	05/07/18 07:32	05/09/18 12:38	25
1,1,2-Trichloroethane	ND		7.6	3.7	mg/Kg	◊	05/07/18 07:32	05/09/18 12:38	25
Trichloroethylene	ND		7.6	2.3	mg/Kg	◊	05/07/18 07:32	05/09/18 12:38	25
Trichlorofluoromethane	ND		7.6	2.2	mg/Kg	◊	05/07/18 07:32	05/09/18 12:38	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.6	2.9	mg/Kg	◊	05/07/18 07:32	05/09/18 12:38	25
Vinyl chloride	ND		7.6	5.6	mg/Kg	◊	05/07/18 07:32	05/09/18 12:38	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		62 - 124				05/07/18 07:32	05/09/18 12:38	25
Dibromofluoromethane (Surr)	98		61 - 120				05/07/18 07:32	05/09/18 12:38	25
1,2-Dichloroethane-d4 (Surr)	118		63 - 133				05/07/18 07:32	05/09/18 12:38	25
Toluene-d8 (Surr)	84		68 - 130				05/07/18 07:32	05/09/18 12:38	25

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L			05/07/18 16:46	1
2-Butanone (MEK)	0.59		0.20	0.12	mg/L			05/07/18 16:46	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/07/18 16:46	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/07/18 16:46	1
Chloroform	ND		0.20	0.085	mg/L			05/07/18 16:46	1
1,2-Dichloroethane	ND		0.20	0.058	mg/L			05/07/18 16:46	1
1,1-Dichloroethene	ND		0.20	0.11	mg/L			05/07/18 16:46	1
Tetrachloroethene	ND		0.20	0.080	mg/L			05/07/18 16:46	1
Trichloroethylene	ND		0.20	0.060	mg/L			05/07/18 16:46	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/07/18 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		65 - 116				05/07/18 16:46	1	
Dibromofluoromethane (Surr)	96		72 - 120				05/07/18 16:46	1	
1,2-Dichloroethane-d4 (Surr)	115		64 - 137				05/07/18 16:46	1	
Toluene-d8 (Surr)	99		82 - 132				05/07/18 16:46	1	

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.1		0.1	0.1	%			05/09/18 13:07	1
Percent Solids	81.9		0.1	0.1	%			05/09/18 13:07	1

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP207-050418

Lab Sample ID: 180-77433-8

Date Collected: 05/04/18 10:52

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 82.8

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	*	30	4.8	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Benzene	ND		7.5	3.0	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Bromoform	ND		7.5	3.9	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Bromomethane	ND		7.5	6.8	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
2-Butanone (MEK)	190		7.5	4.4	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Carbon disulfide	ND		7.5	4.5	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Carbon tetrachloride	ND		7.5	5.0	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Chlorobenzene	ND		7.5	2.4	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Chlorobromomethane	ND		7.5	2.9	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Chlorodibromomethane	ND		7.5	3.6	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Chloroethane	ND		7.5	3.9	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Chloroform	ND		7.5	3.2	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Chloromethane	ND		7.5	5.8	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
cis-1,2-Dichloroethene	ND		7.5	2.4	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
cis-1,3-Dichloropropene	ND		7.5	2.4	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Cyclohexane	ND		7.5	1.8	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
1,2-Dibromo-3-Chloropropane	ND		7.5	4.6	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
1,2-Dibromoethane	ND		7.5	4.1	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
1,2-Dichlorobenzene	ND		7.5	6.1	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
1,3-Dichlorobenzene	ND		7.5	2.4	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
1,4-Dichlorobenzene	ND		7.5	1.5	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Dichlorobromomethane	ND		7.5	3.6	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Dichlorodifluoromethane	ND		7.5	4.4	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
1,1-Dichloroethane	ND		7.5	2.7	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
1,2-Dichloroethane	ND		7.5	2.2	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
1,1-Dichloroethene	ND		7.5	4.3	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
1,2-Dichloropropane	ND		7.5	3.7	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
1,4-Dioxane	ND		1500	55	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Ethylbenzene	ND		7.5	3.2	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
2-Hexanone	ND		7.5	6.3	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Isopropylbenzene	ND		7.5	3.5	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Methyl acetate	ND		38	8.9	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Methylcyclohexane	ND		7.5	3.2	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Methylene Chloride	ND		7.5	3.6	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
4-Methyl-2-pentanone (MIBK)	ND		7.5	2.8	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Methyl tert-butyl ether	ND		7.5	5.6	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
m-Xylene & p-Xylene	ND		7.5	2.8	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
o-Xylene	ND		7.5	3.7	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Styrene	ND		7.5	2.0	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
1,1,2,2-Tetrachloroethane	ND		7.5	4.5	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Tetrachloroethene	ND		7.5	3.0	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Tetrahydrofuran	ND		15	11	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
Toluene	ND		7.5	2.5	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
trans-1,2-Dichloroethene	ND		7.5	3.8	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
trans-1,3-Dichloropropene	ND		7.5	2.6	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
1,2,3-Trichlorobenzene	ND		7.5	3.1	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
1,2,4-Trichlorobenzene	ND		7.5	2.4	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
1,1,1-Trichloroethane	ND		7.5	3.8	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25
1,1,2-Trichloroethane	ND		7.5	3.6	mg/Kg	o	05/07/18 07:32	05/09/18 13:06	25

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP207-050418

Lab Sample ID: 180-77433-8

Date Collected: 05/04/18 10:52

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 82.8

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND	*	7.5	2.3	mg/Kg	✉	05/07/18 07:32	05/09/18 13:06	25
Trichlorofluoromethane	ND	*	7.5	2.2	mg/Kg	✉	05/07/18 07:32	05/09/18 13:06	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	7.5	2.9	mg/Kg	✉	05/07/18 07:32	05/09/18 13:06	25
Vinyl chloride	ND	*	7.5	5.5	mg/Kg	✉	05/07/18 07:32	05/09/18 13:06	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		62 - 124				05/07/18 07:32	05/09/18 13:06	25
Dibromofluoromethane (Surr)	100		61 - 120				05/07/18 07:32	05/09/18 13:06	25
1,2-Dichloroethane-d4 (Surr)	122		63 - 133				05/07/18 07:32	05/09/18 13:06	25
Toluene-d8 (Surr)	80		68 - 130				05/07/18 07:32	05/09/18 13:06	25

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	*	0.20	0.079	mg/L			05/07/18 17:08	1
2-Butanone (MEK)	1.2		0.20	0.12	mg/L			05/07/18 17:08	1
Carbon tetrachloride	ND	*	0.20	0.13	mg/L			05/07/18 17:08	1
Chlorobenzene	ND	*	0.20	0.063	mg/L			05/07/18 17:08	1
Chloroform	ND	*	0.20	0.085	mg/L			05/07/18 17:08	1
1,2-Dichloroethane	ND	*	0.20	0.058	mg/L			05/07/18 17:08	1
1,1-Dichloroethene	ND	*	0.20	0.11	mg/L			05/07/18 17:08	1
Tetrachloroethene	ND	*	0.20	0.080	mg/L			05/07/18 17:08	1
Trichloroethene	ND	*	0.20	0.060	mg/L			05/07/18 17:08	1
Vinyl chloride	ND	*	0.20	0.15	mg/L			05/07/18 17:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		65 - 116				05/07/18 17:08	1	
Dibromofluoromethane (Surr)	96		72 - 120				05/07/18 17:08	1	
1,2-Dichloroethane-d4 (Surr)	114		64 - 137				05/07/18 17:08	1	
Toluene-d8 (Surr)	97		82 - 132				05/07/18 17:08	1	

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.2		0.1	0.1	%			05/09/18 13:07	1
Percent Solids	82.8		0.1	0.1	%			05/09/18 13:07	1

Client Sample ID: NLF-SS-PHASE1-SP208-050418

Lab Sample ID: 180-77433-9

Date Collected: 05/04/18 10:59

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 77.5

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	*	32	5.0	mg/Kg	✉	05/07/18 07:32	05/09/18 11:01	25
Benzene	ND	*	7.9	3.1	mg/Kg	✉	05/07/18 07:32	05/09/18 11:01	25
Bromoform	ND	*	7.9	4.1	mg/Kg	✉	05/07/18 07:32	05/09/18 11:01	25
Bromomethane	ND	*	7.9	7.1	mg/Kg	✉	05/07/18 07:32	05/09/18 11:01	25
2-Butanone (MEK)	180		7.9	4.6	mg/Kg	✉	05/07/18 07:32	05/09/18 11:01	25
Carbon disulfide	ND	*	7.9	4.8	mg/Kg	✉	05/07/18 07:32	05/09/18 11:01	25
Carbon tetrachloride	ND	*	7.9	5.2	mg/Kg	✉	05/07/18 07:32	05/09/18 11:01	25
Chlorobenzene	ND	*	7.9	2.5	mg/Kg	✉	05/07/18 07:32	05/09/18 11:01	25
Chlorobromomethane	ND	*	7.9	3.0	mg/Kg	✉	05/07/18 07:32	05/09/18 11:01	25
Chlorodibromomethane	ND	*	7.9	3.8	mg/Kg	✉	05/07/18 07:32	05/09/18 11:01	25

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP208-050418

Lab Sample ID: 180-77433-9

Date Collected: 05/04/18 10:59

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 77.5

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		7.9	4.1	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
Chloroform	ND		7.9	3.3	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
Chloromethane	ND		7.9	6.1	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
cis-1,2-Dichloroethene	ND		7.9	2.5	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
cis-1,3-Dichloropropene	ND		7.9	2.5	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
Cyclohexane	ND		7.9	1.9	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
1,2-Dibromo-3-Chloropropane	ND		7.9	4.9	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
1,2-Dibromoethane	ND		7.9	4.3	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
1,2-Dichlorobenzene	ND		7.9	6.4	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
1,3-Dichlorobenzene	ND		7.9	2.5	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
1,4-Dichlorobenzene	ND		7.9	1.6	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
Dichlorobromomethane	ND		7.9	3.7	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
Dichlorodifluoromethane	ND		7.9	4.6	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
1,1-Dichloroethane	ND		7.9	2.9	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
1,2-Dichloroethane	ND		7.9	2.3	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
1,1-Dichloroethene	ND		7.9	4.5	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
1,2-Dichloropropane	ND		7.9	3.9	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
1,4-Dioxane	ND		1600	58	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
Ethylbenzene	ND		7.9	3.4	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
2-Hexanone	ND		7.9	6.6	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
Isopropylbenzene	ND		7.9	3.7	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
Methyl acetate	ND		40	9.3	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
Methylcyclohexane	ND		7.9	3.3	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
Methylene Chloride	ND		7.9	3.7	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
4-Methyl-2-pentanone (MIBK)	ND		7.9	2.9	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
Methyl tert-butyl ether	ND		7.9	5.8	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
m-Xylene & p-Xylene	ND		7.9	3.0	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
o-Xylene	ND		7.9	3.9	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
Styrene	ND		7.9	2.1	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
1,1,2,2-Tetrachloroethane	ND		7.9	4.7	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
Tetrachloroethene	ND		7.9	3.2	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
Tetrahydrofuran	ND		16	12	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
Toluene	ND		7.9	2.7	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
trans-1,2-Dichloroethene	ND		7.9	4.0	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
trans-1,3-Dichloropropene	ND		7.9	2.7	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
1,2,3-Trichlorobenzene	ND		7.9	3.3	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
1,2,4-Trichlorobenzene	ND		7.9	2.5	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
1,1,1-Trichloroethane	ND		7.9	4.0	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
1,1,2-Trichloroethane	ND		7.9	3.8	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
Trichloroethene	ND		7.9	2.4	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
Trichlorofluoromethane	ND		7.9	2.3	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.9	3.0	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
Vinyl chloride	ND		7.9	5.8	mg/Kg	♂	05/07/18 07:32	05/09/18 11:01	25
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Sur)	96		62 - 124			05/07/18 07:32	05/09/18 11:01	25	
Dibromofluoromethane (Sur)	95		61 - 120			05/07/18 07:32	05/09/18 11:01	25	
1,2-Dichloroethane-d4 (Sur)	109		63 - 133			05/07/18 07:32	05/09/18 11:01	25	
Toluene-d8 (Sur)	82		68 - 130			05/07/18 07:32	05/09/18 11:01	25	

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP208-050418

Lab Sample ID: 180-77433-9

Date Collected: 05/04/18 10:59

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 77.5

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L			05/07/18 17:30	1
2-Butanone (MEK)	2.1		0.20	0.12	mg/L			05/07/18 17:30	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/07/18 17:30	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/07/18 17:30	1
Chloroform	ND		0.20	0.085	mg/L			05/07/18 17:30	1
1,2-Dichloroethane	ND		0.20	0.058	mg/L			05/07/18 17:30	1
1,1-Dichloroethene	ND		0.20	0.11	mg/L			05/07/18 17:30	1
Tetrachloroethylene	ND		0.20	0.080	mg/L			05/07/18 17:30	1
Trichloroethylene	ND		0.20	0.060	mg/L			05/07/18 17:30	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/07/18 17:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		65 - 116					05/07/18 17:30	1
Dibromofluoromethane (Surr)	96		72 - 120					05/07/18 17:30	1
1,2-Dichloroethane-d4 (Surr)	114		64 - 137					05/07/18 17:30	1
Toluene-d8 (Surr)	98		82 - 132					05/07/18 17:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.5		0.1	0.1	%			05/09/18 13:07	1
Percent Solids	77.5		0.1	0.1	%			05/09/18 13:07	1

Client Sample ID: NLF-SS-PHASE1-SP209-050418

Lab Sample ID: 180-77433-10

Date Collected: 05/04/18 11:06

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.9

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	*	33	5.1	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
Benzene	ND		8.1	3.2	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
Bromoform	ND		8.1	4.2	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
Bromomethane	ND		8.1	7.3	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
2-Butanone (MEK)	190		8.1	4.7	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
Carbon disulfide	ND		8.1	4.9	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
Carbon tetrachloride	ND		8.1	5.4	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
Chlorobenzene	ND		8.1	2.6	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
Chlorobromomethane	ND		8.1	3.1	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
Chlorodibromomethane	ND		8.1	3.9	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
Chloroethane	ND		8.1	4.2	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
Chloroform	ND		8.1	3.4	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
Chloromethane	ND		8.1	6.3	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
cis-1,2-Dichloroethene	ND		8.1	2.6	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
cis-1,3-Dichloropropene	ND		8.1	2.6	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
Cyclohexane	ND		8.1	2.0	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
1,2-Dibromo-3-Chloropropane	ND		8.1	5.0	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
1,2-Dibromoethane	ND		8.1	4.4	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
1,2-Dichlorobenzene	ND		8.1	6.5	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
1,3-Dichlorobenzene	ND		8.1	2.6	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
1,4-Dichlorobenzene	ND		8.1	1.7	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25
Dichlorobromomethane	ND		8.1	3.8	mg/Kg	☒	05/07/18 07:32	05/09/18 11:29	25

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP209-050418

Lab Sample ID: 180-77433-10

Date Collected: 05/04/18 11:06

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.9

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		8.1	4.7	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
1,1-Dichloroethane	ND		8.1	2.9	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
1,2-Dichloroethane	ND		8.1	2.4	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
1,1-Dichloroethene	ND		8.1	4.6	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
1,2-Dichloropropane	ND		8.1	4.0	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
1,4-Dioxane	ND		1600	59	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
Ethylbenzene	ND		8.1	3.5	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
2-Hexanone	ND		8.1	6.8	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
Isopropylbenzene	ND		8.1	3.8	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
Methyl acetate	ND		41	9.6	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
Methylcyclohexane	ND		8.1	3.4	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
Methylene Chloride	ND		8.1	3.8	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
4-Methyl-2-pentanone (MIBK)	ND		8.1	3.0	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
Methyl tert-butyl ether	ND		8.1	6.0	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
m-Xylene & p-Xylene	ND		8.1	3.0	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
o-Xylene	ND		8.1	4.0	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
Styrene	ND		8.1	2.2	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
1,1,2,2-Tetrachloroethane	ND		8.1	4.9	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
Tetrachloroethene	ND		8.1	3.3	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
Tetrahydrofuran	ND		16	12	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
Toluene	ND		8.1	2.7	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
trans-1,2-Dichloroethene	ND		8.1	4.1	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
trans-1,3-Dichloropropene	ND		8.1	2.8	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
1,2,3-Trichlorobenzene	ND		8.1	3.4	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
1,2,4-Trichlorobenzene	ND		8.1	2.6	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
1,1,1-Trichloroethane	ND		8.1	4.1	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
1,1,2-Trichloroethane	ND		8.1	3.9	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
Trichloroethene	ND		8.1	2.4	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
Trichlorofluoromethane	ND *		8.1	2.4	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.1	3.1	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25
Vinyl chloride	ND		8.1	6.0	mg/Kg	o	05/07/18 07:32	05/09/18 11:29	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		62 - 124	05/07/18 07:32	05/09/18 11:29	25
Dibromofluoromethane (Surr)	101		61 - 120	05/07/18 07:32	05/09/18 11:29	25
1,2-Dichloroethane-d4 (Surr)	116		63 - 133	05/07/18 07:32	05/09/18 11:29	25
Toluene-d8 (Surr)	81		68 - 130	05/07/18 07:32	05/09/18 11:29	25

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L			05/07/18 17:52	1
2-Butanone (MEK)	1.8		0.20	0.12	mg/L			05/07/18 17:52	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/07/18 17:52	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/07/18 17:52	1
Chloroform	ND		0.20	0.085	mg/L			05/07/18 17:52	1
1,2-Dichloroethane	ND		0.20	0.058	mg/L			05/07/18 17:52	1
1,1-Dichloroethene	ND		0.20	0.11	mg/L			05/07/18 17:52	1
Tetrachloroethene	ND		0.20	0.080	mg/L			05/07/18 17:52	1
Trichloroethene	ND		0.20	0.060	mg/L			05/07/18 17:52	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/07/18 17:52	1

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP209-050418

Date Collected: 05/04/18 11:06

Date Received: 05/05/18 10:30

Lab Sample ID: 180-77433-10

Matrix: Solid

Percent Solids: 76.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sur)	91		65 - 116		05/07/18 17:52	1
Dibromofluoromethane (Sur)	101		72 - 120		05/07/18 17:52	1
1,2-Dichloroethane-d4 (Sur)	122		64 - 137		05/07/18 17:52	1
Toluene-d8 (Sur)	100		82 - 132		05/07/18 17:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.1		0.1	0.1	%			05/09/18 13:07	1
Percent Solids	76.9		0.1	0.1	%			05/09/18 13:07	1

Client Sample ID: NLF-SS-PHASE1-SP210-050418

Date Collected: 05/04/18 11:12

Date Received: 05/05/18 10:30

Lab Sample ID: 180-77433-11

Matrix: Solid

Percent Solids: 76.7

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		130	21	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
Benzene	ND		33	13	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
Bromoform	ND		33	17	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
Bromomethane	ND		33	29	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
2-Butanone (MEK)	270		33	19	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
Carbon disulfide	ND		33	20	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
Carbon tetrachloride	ND		33	22	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
Chlorobenzene	ND		33	10	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
Chlorobromomethane	ND		33	13	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
Chlorodibromomethane	ND		33	16	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
Chloroethane	ND		33	17	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
Chloroform	ND		33	14	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
Chloromethane	ND		33	25	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
cis-1,2-Dichloroethene	ND		33	10	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
cis-1,3-Dichloropropene	ND		33	10	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
Cyclohexane	ND		33	8.0	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
1,2-Dibromo-3-Chloropropane	ND		33	20	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
1,2-Dibromoethane	ND		33	18	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
1,2-Dichlorobenzene	ND		33	26	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
1,3-Dichlorobenzene	ND		33	10	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
1,4-Dichlorobenzene	ND		33	6.7	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
Dichlorobromomethane	ND		33	15	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
Dichlorodifluoromethane	ND		33	19	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
1,1-Dichloroethane	ND		33	12	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
1,2-Dichloroethane	ND		33	9.5	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
1,1-Dichloroethene	ND		33	19	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
1,2-Dichloropropane	ND		33	16	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
1,4-Dioxane	ND		6500	240	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
Ethylbenzene	ND		33	14	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
2-Hexanone	ND		33	27	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
Isopropylbenzene	ND		33	15	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
Methyl acetate	ND		160	38	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
Methylcyclohexane	ND		33	14	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100
Methylene Chloride	ND		33	15	mg/Kg	✉	05/07/18 07:32	05/09/18 17:25	100

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP210-050418

Lab Sample ID: 180-77433-11

Date Collected: 05/04/18 11:12

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.7

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		33	12	mg/Kg	5	05/07/18 07:32	05/09/18 17:25	100
Methyl tert-butyl ether	ND		33	24	mg/Kg	5	05/07/18 07:32	05/09/18 17:25	100
m-Xylene & p-Xylene	ND		33	12	mg/Kg	5	05/07/18 07:32	05/09/18 17:25	100
o-Xylene	ND		33	16	mg/Kg	5	05/07/18 07:32	05/09/18 17:25	100
Styrene	ND		33	8.7	mg/Kg	5	05/07/18 07:32	05/09/18 17:25	100
1,1,2,2-Tetrachloroethane	ND		33	19	mg/Kg	5	05/07/18 07:32	05/09/18 17:25	100
Tetrachloroethene	ND		33	13	mg/Kg	5	05/07/18 07:32	05/09/18 17:25	100
Tetrahydrofuran	ND		65	49	mg/Kg	5	05/07/18 07:32	05/09/18 17:25	100
Toluene	ND		33	11	mg/Kg	5	05/07/18 07:32	05/09/18 17:25	100
trans-1,2-Dichloroethene	ND		33	17	mg/Kg	5	05/07/18 07:32	05/09/18 17:25	100
trans-1,3-Dichloropropene	ND		33	11	mg/Kg	5	05/07/18 07:32	05/09/18 17:25	100
1,2,3-Trichlorobenzene	ND		33	13	mg/Kg	5	05/07/18 07:32	05/09/18 17:25	100
1,2,4-Trichlorobenzene	ND		33	11	mg/Kg	5	05/07/18 07:32	05/09/18 17:25	100
1,1,1-Trichloroethane	ND		33	16	mg/Kg	5	05/07/18 07:32	05/09/18 17:25	100
1,1,2-Trichloroethane	ND		33	16	mg/Kg	5	05/07/18 07:32	05/09/18 17:25	100
Trichloroethene	ND		33	9.8	mg/Kg	5	05/07/18 07:32	05/09/18 17:25	100
Trichlorofluoromethane	ND		33	9.5	mg/Kg	5	05/07/18 07:32	05/09/18 17:25	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		33	12	mg/Kg	5	05/07/18 07:32	05/09/18 17:25	100
Vinyl chloride	ND		33	24	mg/Kg	5	05/07/18 07:32	05/09/18 17:25	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		62 - 124	05/07/18 07:32	05/09/18 17:25	100
Dibromofluoromethane (Surr)	96		61 - 120	05/07/18 07:32	05/09/18 17:25	100
1,2-Dichloroethane-d4 (Surr)	120		63 - 133	05/07/18 07:32	05/09/18 17:25	100
Toluene-d8 (Surr)	81		68 - 130	05/07/18 07:32	05/09/18 17:25	100

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L			05/07/18 18:14	1
2-Butanone (MEK)	0.63		0.20	0.12	mg/L			05/07/18 18:14	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/07/18 18:14	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/07/18 18:14	1
Chloroform	ND		0.20	0.085	mg/L			05/07/18 18:14	1
1,2-Dichloroethane	ND		0.20	0.058	mg/L			05/07/18 18:14	1
1,1-Dichloroethene	ND		0.20	0.11	mg/L			05/07/18 18:14	1
Tetrachloroethene	ND		0.20	0.080	mg/L			05/07/18 18:14	1
Trichloroethene	ND		0.20	0.060	mg/L			05/07/18 18:14	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/07/18 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		65 - 116	05/07/18 18:14		1
Dibromofluoromethane (Surr)	98		72 - 120	05/07/18 18:14		1
1,2-Dichloroethane-d4 (Surr)	117		64 - 137	05/07/18 18:14		1
Toluene-d8 (Surr)	99		82 - 132	05/07/18 18:14		1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.3		0.1	0.1	%			05/09/18 13:07	1
Percent Solids	76.7		0.1	0.1	%			05/09/18 13:07	1

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP211-050418

Lab Sample ID: 180-77433-12

Date Collected: 05/04/18 11:19

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.2

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	*	33	5.2	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Benzene	ND		8.2	3.2	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Bromoform	ND		8.2	4.3	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Bromomethane	ND		8.2	7.4	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
2-Butanone (MEK)	200		8.2	4.7	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Carbon disulfide	ND		8.2	4.9	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Carbon tetrachloride	ND		8.2	5.4	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Chlorobenzene	ND		8.2	2.6	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Chlorobromomethane	ND		8.2	3.1	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Chlorodibromomethane	ND		8.2	3.9	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Chloroethane	ND		8.2	4.2	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Chloroform	ND		8.2	3.5	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Chloromethane	ND		8.2	6.3	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
cis-1,2-Dichloroethene	ND		8.2	2.6	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
cis-1,3-Dichloropropene	ND		8.2	2.6	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Cyclohexane	ND		8.2	2.0	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
1,2-Dibromo-3-Chloropropane	ND		8.2	5.0	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
1,2-Dibromoethane	ND		8.2	4.5	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
1,2-Dichlorobenzene	ND		8.2	6.6	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
1,3-Dichlorobenzene	ND		8.2	2.6	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
1,4-Dichlorobenzene	ND		8.2	1.7	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Dichlorobromomethane	ND		8.2	3.9	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Dichlorodifluoromethane	ND		8.2	4.8	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
1,1-Dichloroethane	ND		8.2	3.0	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
1,2-Dichloroethane	ND		8.2	2.4	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
1,1-Dichloroethene	ND		8.2	4.7	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
1,2-Dichloropropane	ND		8.2	4.0	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
1,4-Dioxane	ND		1600	60	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Ethylbenzene	ND		8.2	3.5	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
2-Hexanone	ND		8.2	6.9	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Isopropylbenzene	ND		8.2	3.8	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Methyl acetate	ND		41	9.6	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Methylcyclohexane	ND		8.2	3.4	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Methylene Chloride	ND		8.2	3.9	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
4-Methyl-2-pentanone (MIBK)	ND		8.2	3.0	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Methyl tert-butyl ether	ND		8.2	6.0	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
m-Xylene & p-Xylene	ND		8.2	3.1	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
o-Xylene	ND		8.2	4.0	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Styrene	ND		8.2	2.2	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
1,1,2,2-Tetrachloroethane	ND		8.2	4.9	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Tetrachloroethene	ND		8.2	3.3	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Tetrahydrofuran	ND		16	12	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
Toluene	ND		8.2	2.8	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
trans-1,2-Dichloroethene	ND		8.2	4.1	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
trans-1,3-Dichloropropene	ND		8.2	2.8	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
1,2,3-Trichlorobenzene	ND		8.2	3.4	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
1,2,4-Trichlorobenzene	ND		8.2	2.6	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
1,1,1-Trichloroethane	ND		8.2	4.1	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25
1,1,2-Trichloroethane	ND		8.2	3.9	mg/Kg	☒	05/07/18 07:32	05/09/18 13:34	25

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TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP211-050418

Lab Sample ID: 180-77433-12

Date Collected: 05/04/18 11:19

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.2

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND	*	8.2	2.5	mg/Kg	♂	05/07/18 07:32	05/09/18 13:34	25
Trichlorofluoromethane	ND	*	8.2	2.4	mg/Kg	♂	05/07/18 07:32	05/09/18 13:34	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	8.2	3.1	mg/Kg	♂	05/07/18 07:32	05/09/18 13:34	25
Vinyl chloride	ND	*	8.2	6.0	mg/Kg	♂	05/07/18 07:32	05/09/18 13:34	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		62 - 124				05/07/18 07:32	05/09/18 13:34	25
Dibromofluoromethane (Surr)	100		61 - 120				05/07/18 07:32	05/09/18 13:34	25
1,2-Dichloroethane-d4 (Surr)	124		63 - 133				05/07/18 07:32	05/09/18 13:34	25
Toluene-d8 (Surr)	80		68 - 130				05/07/18 07:32	05/09/18 13:34	25

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	*	0.20	0.079	mg/L			05/07/18 13:28	1
2-Butanone (MEK)	2.5		0.20	0.12	mg/L			05/07/18 13:28	1
Carbon tetrachloride	ND	*	0.20	0.13	mg/L			05/07/18 13:28	1
Chlorobenzene	ND	*	0.20	0.063	mg/L			05/07/18 13:28	1
Chloroform	ND	*	0.20	0.085	mg/L			05/07/18 13:28	1
1,2-Dichloroethane	ND	*	0.20	0.058	mg/L			05/07/18 13:28	1
1,1-Dichloroethene	ND	*	0.20	0.11	mg/L			05/07/18 13:28	1
Tetrachloroethene	ND	*	0.20	0.080	mg/L			05/07/18 13:28	1
Trichloroethene	ND	*	0.20	0.060	mg/L			05/07/18 13:28	1
Vinyl chloride	ND	*	0.20	0.15	mg/L			05/07/18 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		65 - 116				05/07/18 13:28		1
Dibromofluoromethane (Surr)	93		72 - 120				05/07/18 13:28		1
1,2-Dichloroethane-d4 (Surr)	110		64 - 137				05/07/18 13:28		1
Toluene-d8 (Surr)	104		82 - 132				05/07/18 13:28		1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.8		0.1	0.1	%			05/09/18 13:07	1
Percent Solids	76.2		0.1	0.1	%			05/09/18 13:07	1

Client Sample ID: NLF-SS-PHASE1-SP212-050418

Lab Sample ID: 180-77433-13

Date Collected: 05/04/18 11:26

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.8

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	*	130	20	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Benzene	ND	*	32	13	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Bromoform	ND	*	32	17	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Bromomethane	ND	*	32	29	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
2-Butanone (MEK)	230		32	18	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Carbon disulfide	ND	*	32	19	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Carbon tetrachloride	ND	*	32	21	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Chlorobenzene	ND	*	32	10	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Chlorobromomethane	ND	*	32	12	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Chlorodibromomethane	ND	*	32	15	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP212-050418

Lab Sample ID: 180-77433-13

Date Collected: 05/04/18 11:26

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.8

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		32	16	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Chloroform	ND		32	13	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Chloromethane	ND		32	25	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
cis-1,2-Dichloroethene	ND		32	10	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
cis-1,3-Dichloropropene	ND		32	10	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Cyclohexane	ND		32	7.8	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
1,2-Dibromo-3-Chloropropane	ND		32	20	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
1,2-Dibromoethane	ND		32	17	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
1,2-Dichlorobenzene	ND		32	26	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
1,3-Dichlorobenzene	ND		32	10	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
1,4-Dichlorobenzene	ND		32	6.5	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Dichlorobromomethane	ND		32	15	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Dichlorodifluoromethane	ND		32	19	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
1,1-Dichloroethane	ND		32	12	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
1,2-Dichloroethane	ND		32	9.3	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
1,1-Dichloroethene	ND		32	18	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
1,2-Dichloropropane	ND		32	16	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
1,4-Dioxane	ND		6400	230	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Ethylbenzene	ND		32	14	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
2-Hexanone	ND		32	27	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Isopropylbenzene	ND		32	15	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Methyl acetate	ND		160	38	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Methylcyclohexane	ND		32	13	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Methylene Chloride	ND		32	15	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
4-Methyl-2-pentanone (MIBK)	ND		32	12	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Methyl tert-butyl ether	ND		32	24	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
m-Xylene & p-Xylene	ND		32	12	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
o-Xylene	ND		32	16	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Styrene	ND		32	8.5	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
1,1,2,2-Tetrachloroethane	ND		32	19	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Tetrachloroethene	ND		32	13	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Tetrahydrofuran	ND		64	48	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Toluene	ND		32	11	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
trans-1,2-Dichloroethene	ND		32	16	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
trans-1,3-Dichloropropene	ND		32	11	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
1,2,3-Trichlorobenzene	ND		32	13	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
1,2,4-Trichlorobenzene	ND		32	10	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
1,1,1-Trichloroethane	ND		32	16	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
1,1,2-Trichloroethane	ND		32	15	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Trichloroethene	ND		32	9.6	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Trichlorofluoromethane	ND		32	9.3	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		32	12	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100
Vinyl chloride	ND		32	23	mg/Kg	♂	05/07/18 07:32	05/09/18 18:22	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		62 - 124	05/07/18 07:32	05/09/18 18:22	100
Dibromofluoromethane (Surr)	93		61 - 120	05/07/18 07:32	05/09/18 18:22	100
1,2-Dichloroethane-d4 (Surr)	119		63 - 133	05/07/18 07:32	05/09/18 18:22	100
Toluene-d8 (Surr)	75		68 - 130	05/07/18 07:32	05/09/18 18:22	100

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP212-050418

Lab Sample ID: 180-77433-13

Date Collected: 05/04/18 11:26

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.8

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L			05/09/18 15:07	1
2-Butanone (MEK)	1.4		0.20	0.12	mg/L			05/09/18 15:07	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/09/18 15:07	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/09/18 15:07	1
Chloroform	ND		0.20	0.085	mg/L			05/09/18 15:07	1
1,2-Dichloroethane	ND		0.20	0.058	mg/L			05/09/18 15:07	1
1,1-Dichloroethene	ND		0.20	0.11	mg/L			05/09/18 15:07	1
Tetrachloroethylene	ND		0.20	0.080	mg/L			05/09/18 15:07	1
Trichloroethylene	ND		0.20	0.060	mg/L			05/09/18 15:07	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/09/18 15:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Sur)	90		65-116				05/09/18 15:07	1	
Dibromofluoromethane (Sur)	95		72-120				05/09/18 15:07	1	
1,2-Dichloroethane-d4 (Sur)	112		64-137				05/09/18 15:07	1	
Toluene-d8 (Sur)	101		82-132				05/09/18 15:07	1	

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.2		0.1	0.1	%			05/09/18 13:07	1
Percent Solids	76.8		0.1	0.1	%			05/09/18 13:07	1

Client Sample ID: NLF-SS-PHASE1-SP213-050418

Lab Sample ID: 180-77433-14

Date Collected: 05/04/18 11:33

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 73.7

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		68	11	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
Benzene	ND		17	6.7	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
Bromoform	ND		17	8.9	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
Bromomethane	ND		17	15	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
2-Butanone (MEK)	100		17	9.8	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
Carbon disulfide	ND		17	10	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
Carbon tetrachloride	ND		17	11	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
Chlorobenzene	ND		17	5.3	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
Chlorobromomethane	ND		17	6.5	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
Chlorodibromomethane	ND		17	8.2	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
Chloroethane	ND		17	8.8	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
Chloroform	ND		17	7.2	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
Chloromethane	ND		17	13	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
cis-1,2-Dichloroethene	ND		17	5.3	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
cis-1,3-Dichloropropene	ND		17	5.4	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
Cyclohexane	ND		17	4.1	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
1,2-Dibromo-3-Chloropropane	ND		17	10	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
1,2-Dibromoethane	ND		17	9.3	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
1,2-Dichlorobenzene	ND		17	14	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
1,3-Dichlorobenzene	ND		17	5.4	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
1,4-Dichlorobenzene	ND		17	3.5	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50
Dichlorobromomethane	ND		17	8.0	mg/Kg	✉	05/07/18 07:32	05/09/18 17:53	50

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP213-050418

Lab Sample ID: 180-77433-14

Date Collected: 05/04/18 11:33

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 73.7

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		17	9.9	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
1,1-Dichloroethane	ND		17	6.1	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
1,2-Dichloroethane	ND		17	4.9	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
1,1-Dichloroethene	ND		17	9.7	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
1,2-Dichloropropane	ND		17	8.3	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
1,4-Dioxane	ND		3400	120	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
Ethylbenzene	ND		17	7.3	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
2-Hexanone	ND		17	14	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
Isopropylbenzene	ND		17	7.9	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
Methyl acetate	ND		85	20	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
Methylcyclohexane	ND		17	7.1	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
Methylene Chloride	ND		17	8.0	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
4-Methyl-2-pentanone (MIBK)	ND		17	6.3	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
Methyl tert-butyl ether	ND		17	13	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
m-Xylene & p-Xylene	ND		17	6.4	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
o-Xylene	ND		17	8.3	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
Styrene	ND		17	4.5	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
1,1,2,2-Tetrachloroethane	ND		17	10	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
Tetrachloroethene	ND		17	6.8	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
Tetrahydrofuran	ND		34	25	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
Toluene	ND		17	5.7	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
trans-1,2-Dichloroethene	ND		17	8.6	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
trans-1,3-Dichloropropene	ND		17	5.9	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
1,2,3-Trichlorobenzene	ND		17	7.0	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
1,2,4-Trichlorobenzene	ND		17	5.5	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
1,1,1-Trichloroethane	ND		17	8.5	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
1,1,2-Trichloroethane	ND		17	8.2	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
Trichloroethene	ND		17	5.1	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
Trichlorofluoromethane	ND		17	4.9	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		17	6.5	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50
Vinyl chloride	ND		17	12	mg/Kg	☒	05/07/18 07:32	05/09/18 17:53	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromo fluoro benzene (Sur)	91		62 - 124	05/07/18 07:32	05/09/18 17:53	50
Dibromo fluoro methane (Sur)	93		61 - 120	05/07/18 07:32	05/09/18 17:53	50
1,2-Dichloroethane-d4 (Sur)	114		63 - 133	05/07/18 07:32	05/09/18 17:53	50
Toluene-d8 (Sur)	78		68 - 130	05/07/18 07:32	05/09/18 17:53	50

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L			05/09/18 15:29	1
2-Butanone (MEK)	0.53		0.20	0.12	mg/L			05/09/18 15:29	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/09/18 15:29	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/09/18 15:29	1
Chloroform	ND		0.20	0.085	mg/L			05/09/18 15:29	1
1,2-Dichloroethane	ND		0.20	0.058	mg/L			05/09/18 15:29	1
1,1-Dichloroethene	ND		0.20	0.11	mg/L			05/09/18 15:29	1
Tetrachloroethene	ND		0.20	0.080	mg/L			05/09/18 15:29	1
Trichloroethene	ND		0.20	0.060	mg/L			05/09/18 15:29	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/09/18 15:29	1

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP213-050418

Date Collected: 05/04/18 11:33

Date Received: 05/05/18 10:30

Lab Sample ID: 180-77433-14

Matrix: Solid

Percent Solids: 73.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromo fluoro benzene (Sur)	92		65 - 116		05/09/18 15:29	1
Dibromo fluoro methane (Sur)	97		72 - 120		05/09/18 15:29	1
1,2-Dichloroethane-d4 (Sur)	115		64 - 137		05/09/18 15:29	1
Toluene-d8 (Sur)	109		82 - 132		05/09/18 15:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.3		0.1	0.1	%			05/09/18 13:07	1
Percent Solids	73.7		0.1	0.1	%			05/09/18 13:07	1

Client Sample ID: NLF-SS-PHASE1-SP214-050418

Date Collected: 05/04/18 11:39

Date Received: 05/05/18 10:30

Lab Sample ID: 180-77433-15

Matrix: Solid

Percent Solids: 74.7

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		1.3	0.21	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
Benzene	ND		0.33	0.13	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
Bromoform	ND		0.33	0.17	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
Bromomethane	ND		0.33	0.30	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
2-Butanone (MEK)	1.3		0.33	0.19	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
Carbon disulfide	ND		0.33	0.20	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
Carbon tetrachloride	ND		0.33	0.22	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
Chlorobenzene	ND		0.33	0.11	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
Chlorobromomethane	ND		0.33	0.13	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
Chlorodibromomethane	ND		0.33	0.16	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
Chloroethane	ND		0.33	0.17	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
Chloroform	ND		0.33	0.14	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
Chloromethane	ND		0.33	0.26	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
cis-1,2-Dichloroethene	ND		0.33	0.11	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
cis-1,3-Dichloropropene	ND		0.33	0.11	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
Cyclohexane	ND		0.33	0.082	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
1,2-Dibromo-3-Chloropropane	ND		0.33	0.21	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
1,2-Dibromoethane	ND		0.33	0.18	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
1,2-Dichlorobenzene	ND		0.33	0.27	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
1,3-Dichlorobenzene	ND		0.33	0.11	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
1,4-Dichlorobenzene	ND		0.33	0.068	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
Dichlorobromomethane	ND		0.33	0.16	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
Dichlorodifluoromethane	ND		0.33	0.20	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
1,1-Dichloroethane	ND		0.33	0.12	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
1,2-Dichloroethane	ND		0.33	0.097	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
1,1-Dichloroethene	ND		0.33	0.19	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
1,2-Dichloropropane	ND		0.33	0.16	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
1,4-Dioxane	ND		67	2.4	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
Ethylbenzene	ND		0.33	0.14	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
2-Hexanone	ND		0.33	0.28	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
Isopropylbenzene	ND		0.33	0.15	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
Methyl acetate	ND		1.7	0.39	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
Methylcyclohexane	ND		0.33	0.14	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1
Methylene Chloride	ND		0.33	0.16	mg/Kg	✉	05/07/18 07:32	05/09/18 16:57	1

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP214-050418

Lab Sample ID: 180-77433-15

Date Collected: 05/04/18 11:39

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 74.7

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		0.33	0.12	mg/Kg	□	05/07/18 07:32	05/09/18 16:57	1
Methyl tert-butyl ether	ND		0.33	0.25	mg/Kg	□	05/07/18 07:32	05/09/18 16:57	1
m-Xylene & p-Xylene	ND		0.33	0.13	mg/Kg	□	05/07/18 07:32	05/09/18 16:57	1
o-Xylene	ND		0.33	0.16	mg/Kg	□	05/07/18 07:32	05/09/18 16:57	1
Styrene	ND		0.33	0.089	mg/Kg	□	05/07/18 07:32	05/09/18 16:57	1
1,1,2,2-Tetrachloroethane	ND		0.33	0.20	mg/Kg	□	05/07/18 07:32	05/09/18 16:57	1
Tetrachloroethylene	ND		0.33	0.13	mg/Kg	□	05/07/18 07:32	05/09/18 16:57	1
Tetrahydrofuran	ND		0.67	0.50	mg/Kg	□	05/07/18 07:32	05/09/18 16:57	1
Toluene	ND		0.33	0.11	mg/Kg	□	05/07/18 07:32	05/09/18 16:57	1
trans-1,2-Dichloroethylene	ND		0.33	0.17	mg/Kg	□	05/07/18 07:32	05/09/18 16:57	1
trans-1,3-Dichloropropene	ND		0.33	0.12	mg/Kg	□	05/07/18 07:32	05/09/18 16:57	1
1,2,3-Trichlorobenzene	ND		0.33	0.14	mg/Kg	□	05/07/18 07:32	05/09/18 16:57	1
1,2,4-Trichlorobenzene	ND		0.33	0.11	mg/Kg	□	05/07/18 07:32	05/09/18 16:57	1
1,1,1-Trichloroethane	ND		0.33	0.17	mg/Kg	□	05/07/18 07:32	05/09/18 16:57	1
1,1,2-Trichloroethane	ND		0.33	0.16	mg/Kg	□	05/07/18 07:32	05/09/18 16:57	1
Trichloroethylene	ND		0.33	0.10	mg/Kg	□	05/07/18 07:32	05/09/18 16:57	1
Trichlorofluoromethane	ND		0.33	0.097	mg/Kg	□	05/07/18 07:32	05/09/18 16:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.33	0.13	mg/Kg	□	05/07/18 07:32	05/09/18 16:57	1
Vinyl chloride	ND		0.33	0.25	mg/Kg	□	05/07/18 07:32	05/09/18 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sur)	90		62 - 124	05/07/18 07:32	05/09/18 16:57	1
Dibromofluoromethane (Sur)	93		61 - 120	05/07/18 07:32	05/09/18 16:57	1
1,2-Dichloroethane-d4 (Sur)	119		63 - 133	05/07/18 07:32	05/09/18 16:57	1
Toluene-d8 (Sur)	78		68 - 130	05/07/18 07:32	05/09/18 16:57	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L			05/09/18 15:51	1
2-Butanone (MEK)	0.21		0.20	0.12	mg/L			05/09/18 15:51	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/09/18 15:51	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/09/18 15:51	1
Chloroform	ND		0.20	0.085	mg/L			05/09/18 15:51	1
1,2-Dichloroethane	ND		0.20	0.058	mg/L			05/09/18 15:51	1
1,1-Dichloroethene	ND		0.20	0.11	mg/L			05/09/18 15:51	1
Tetrachloroethylene	ND		0.20	0.080	mg/L			05/09/18 15:51	1
Trichloroethylene	ND		0.20	0.060	mg/L			05/09/18 15:51	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/09/18 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sur)	88		65 - 116	05/09/18 15:51	1	
Dibromofluoromethane (Sur)	97		72 - 120	05/09/18 15:51	1	
1,2-Dichloroethane-d4 (Sur)	113		64 - 137	05/09/18 15:51	1	
Toluene-d8 (Sur)	102		82 - 132	05/09/18 15:51	1	

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.3		0.1	0.1	%			05/09/18 13:39	1
Percent Solids	74.7		0.1	0.1	%			05/09/18 13:39	1

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP215-050418

Lab Sample ID: 180-77433-16

Date Collected: 05/04/18 13:15

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 77.7

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	*	13	2.0	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Benzene	ND		3.2	1.3	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Bromoform	ND		3.2	1.7	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Bromomethane	ND		3.2	2.9	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
2-Butanone (MEK)	56		3.2	1.9	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Carbon disulfide	ND		3.2	1.9	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Carbon tetrachloride	ND		3.2	2.1	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Chlorobenzene	ND		3.2	1.0	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Chlorobromomethane	ND		3.2	1.2	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Chlorodibromomethane	ND		3.2	1.5	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Chloroethane	ND		3.2	1.7	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Chloroform	ND		3.2	1.4	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Chloromethane	ND		3.2	2.5	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
cis-1,2-Dichloroethene	ND		3.2	1.0	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
cis-1,3-Dichloropropene	ND		3.2	1.0	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Cyclohexane	ND		3.2	0.79	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
1,2-Dibromo-3-Chloropropane	ND		3.2	2.0	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
1,2-Dibromoethane	ND		3.2	1.8	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
1,2-Dichlorobenzene	ND		3.2	2.6	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
1,3-Dichlorobenzene	ND		3.2	1.0	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
1,4-Dichlorobenzene	ND		3.2	0.66	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Dichlorobromomethane	ND		3.2	1.5	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Dichlorodifluoromethane	ND		3.2	1.9	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
1,1-Dichloroethane	ND		3.2	1.2	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
1,2-Dichloroethane	ND		3.2	0.93	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
1,1-Dichloroethylene	ND		3.2	1.8	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
1,2-Dichloropropane	ND		3.2	1.6	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
1,4-Dioxane	ND		640	23	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Ethylbenzene	ND		3.2	1.4	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
2-Hexanone	ND		3.2	2.7	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Isopropylbenzene	ND		3.2	1.5	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Methyl acetate	ND		16	3.8	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Methylcyclohexane	ND		3.2	1.4	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Methylene Chloride	ND		3.2	1.5	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
4-Methyl-2-pentanone (MIBK)	ND		3.2	1.2	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Methyl tert-butyl ether	ND		3.2	2.4	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
m-Xylene & p-Xylene	ND		3.2	1.2	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
o-Xylene	ND		3.2	1.6	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Styrene	ND		3.2	0.86	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
1,1,2,2-Tetrachloroethane	ND		3.2	1.9	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Tetrachloroethylene	ND		3.2	1.3	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Tetrahydrofuran	ND		6.4	4.8	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
Toluene	ND		3.2	1.1	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
trans-1,2-Dichloroethene	ND		3.2	1.6	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
trans-1,3-Dichloropropene	ND		3.2	1.1	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
1,2,3-Trichlorobenzene	ND		3.2	1.3	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
1,2,4-Trichlorobenzene	ND		3.2	1.0	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
1,1,1-Trichloroethane	ND		3.2	1.6	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10
1,1,2-Trichloroethane	ND		3.2	1.5	mg/Kg	<input checked="" type="checkbox"/>	05/07/18 07:32	05/09/18 15:27	10

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP215-050418

Lab Sample ID: 180-77433-16

Date Collected: 05/04/18 13:15

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 77.7

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND	*	3.2	0.97	mg/Kg	☒	05/07/18 07:32	05/09/18 15:27	10
Trichlorofluoromethane	ND	*	3.2	0.94	mg/Kg	☒	05/07/18 07:32	05/09/18 15:27	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	3.2	1.2	mg/Kg	☒	05/07/18 07:32	05/09/18 15:27	10
Vinyl chloride	ND	*	3.2	2.4	mg/Kg	☒	05/07/18 07:32	05/09/18 15:27	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sur)	98		62 - 124				05/07/18 07:32	05/09/18 15:27	10
Dibromofluoromethane (Sur)	100		61 - 120				05/07/18 07:32	05/09/18 15:27	10
1,2-Dichloroethane-d4 (Sur)	131		63 - 133				05/07/18 07:32	05/09/18 15:27	10
Toluene-d8 (Sur)	82		68 - 130				05/07/18 07:32	05/09/18 15:27	10

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	*	0.20	0.079	mg/L			05/09/18 16:13	1
2-Butanone (MEK)	0.27		0.20	0.12	mg/L			05/09/18 16:13	1
Carbon tetrachloride	ND	*	0.20	0.13	mg/L			05/09/18 16:13	1
Chlorobenzene	ND	*	0.20	0.063	mg/L			05/09/18 16:13	1
Chloroform	ND	*	0.20	0.085	mg/L			05/09/18 16:13	1
1,2-Dichloroethane	ND	*	0.20	0.058	mg/L			05/09/18 16:13	1
1,1-Dichloroethene	ND	*	0.20	0.11	mg/L			05/09/18 16:13	1
Tetrachloroethylene	ND	*	0.20	0.080	mg/L			05/09/18 16:13	1
Trichloroethylene	ND	*	0.20	0.060	mg/L			05/09/18 16:13	1
Vinyl chloride	ND	*	0.20	0.15	mg/L			05/09/18 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sur)	86		65 - 116				05/09/18 16:13		1
Dibromofluoromethane (Sur)	95		72 - 120				05/09/18 16:13		1
1,2-Dichloroethane-d4 (Sur)	111		64 - 137				05/09/18 16:13		1
Toluene-d8 (Sur)	94		82 - 132				05/09/18 16:13		1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.3		0.1	0.1	%			05/09/18 13:39	1
Percent Solids	77.7		0.1	0.1	%			05/09/18 13:39	1

Client Sample ID: NLF-SS-PHASE1-SP216-050418

Lab Sample ID: 180-77433-17

Date Collected: 05/04/18 13:21

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.2

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	*	130	21	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Benzene	ND	*	33	13	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Bromoform	ND	*	33	17	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Bromomethane	ND	*	33	30	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
2-Butanone (MEK)	180		33	19	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Carbon disulfide	ND	*	33	20	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Carbon tetrachloride	ND	*	33	22	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Chlorobenzene	ND	*	33	10	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Chlorobromomethane	ND	*	33	13	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Chlorodibromomethane	ND	*	33	16	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP216-050418

Lab Sample ID: 180-77433-17

Date Collected: 05/04/18 13:21

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.2

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		33	17	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Chloroform	ND		33	14	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Chloromethane	ND		33	25	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
cis-1,2-Dichloroethene	ND		33	10	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
cis-1,3-Dichloropropene	ND		33	10	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Cyclohexane	ND		33	8.0	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
1,2-Dibromo-3-Chloropropane	ND		33	20	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
1,2-Dibromoethane	ND		33	18	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
1,2-Dichlorobenzene	ND		33	26	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
1,3-Dichlorobenzene	ND		33	10	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
1,4-Dichlorobenzene	ND		33	6.7	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Dichlorobromomethane	ND		33	15	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Dichlorodifluoromethane	ND		33	19	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
1,1-Dichloroethane	ND		33	12	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
1,2-Dichloroethane	ND		33	9.5	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
1,1-Dichloroethene	ND		33	19	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
1,2-Dichloropropane	ND		33	16	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
1,4-Dioxane	ND		6600	240	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Ethylbenzene	ND		33	14	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
2-Hexanone	ND		33	27	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Isopropylbenzene	ND		33	15	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Methyl acetate	ND		160	39	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Methylcyclohexane	ND		33	14	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Methylene Chloride	ND		33	15	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
4-Methyl-2-pentanone (MIBK)	ND		33	12	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Methyl tert-butyl ether	ND		33	24	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
m-Xylene & p-Xylene	ND		33	12	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
o-Xylene	ND		33	16	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Styrene	ND		33	8.7	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
1,1,2,2-Tetrachloroethane	ND		33	20	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Tetrachloroethene	ND		33	13	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Tetrahydrofuran	ND		66	49	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Toluene	ND		33	11	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
trans-1,2-Dichloroethene	ND		33	17	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
trans-1,3-Dichloropropene	ND		33	11	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
1,2,3-Trichlorobenzene	ND		33	14	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
1,2,4-Trichlorobenzene	ND		33	11	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
1,1,1-Trichloroethane	ND		33	16	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
1,1,2-Trichloroethane	ND		33	16	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Trichloroethene	ND		33	9.9	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Trichlorofluoromethane	ND		33	9.6	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		33	13	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100
Vinyl chloride	ND		33	24	mg/Kg	☒	05/07/18 07:37	05/10/18 13:31	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		62 - 124	05/07/18 07:37	05/10/18 13:31	100
Dibromofluoromethane (Surr)	92		61 - 120	05/07/18 07:37	05/10/18 13:31	100
1,2-Dichloroethane-d4 (Surr)	107		63 - 133	05/07/18 07:37	05/10/18 13:31	100
Toluene-d8 (Surr)	81		68 - 130	05/07/18 07:37	05/10/18 13:31	100

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP216-050418

Lab Sample ID: 180-77433-17

Date Collected: 05/04/18 13:21

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.2

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L			05/09/18 16:35	1
2-Butanone (MEK)	ND		0.20	0.12	mg/L			05/09/18 16:35	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/09/18 16:35	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/09/18 16:35	1
Chloroform	ND		0.20	0.085	mg/L			05/09/18 16:35	1
1,2-Dichloroethane	ND		0.20	0.058	mg/L			05/09/18 16:35	1
1,1-Dichloroethene	ND		0.20	0.11	mg/L			05/09/18 16:35	1
Tetrachloroethene	ND		0.20	0.080	mg/L			05/09/18 16:35	1
Trichloroethene	ND		0.20	0.060	mg/L			05/09/18 16:35	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/09/18 16:35	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromoiodobenzene (Surrogate)		82		65 - 116				05/09/18 16:35	1
Dibromofluoromethane (Surrogate)		94		72 - 120				05/09/18 16:35	1
1,2-Dichloroethane-d4 (Surrogate)		113		64 - 137				05/09/18 16:35	1
Toluene-d8 (Surrogate)		104		82 - 132				05/09/18 16:35	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.8		0.1	0.1	%			05/09/18 13:39	1
Percent Solids	76.2		0.1	0.1	%			05/09/18 13:39	1

Client Sample ID: NLF-SS-PHASE1-SP217-050418

Lab Sample ID: 180-77433-18

Date Collected: 05/04/18 13:27

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 74.1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	*	67	11	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
Benzene	ND		17	6.6	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
Bromoform	ND		17	8.8	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
Bromomethane	ND		17	15	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
2-Butanone (MEK)	100		17	9.8	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
Carbon disulfide	ND		17	10	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
Carbon tetrachloride	ND		17	11	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
Chlorobenzene	ND		17	5.3	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
Chlorobromomethane	ND		17	6.5	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
Chlorodibromomethane	ND		17	8.1	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
Chloroethane	ND		17	8.7	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
Chloroform	ND		17	7.1	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
Chloromethane	ND		17	13	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
cis-1,2-Dichloroethene	ND		17	5.3	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
cis-1,3-Dichloropropene	ND		17	5.4	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
Cyclohexane	ND		17	4.1	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
1,2-Dibromo-3-Chloropropane	ND		17	10	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
1,2-Dibromoethane	ND		17	9.2	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
1,2-Dichlorobenzene	ND		17	14	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
1,3-Dichlorobenzene	ND		17	5.4	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
1,4-Dichlorobenzene	ND		17	3.4	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50
Dichlorobromomethane	ND		17	7.9	mg/Kg	✉	05/07/18 07:37	05/10/18 13:59	50

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP217-050418

Lab Sample ID: 180-77433-18

Date Collected: 05/04/18 13:27

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 74.1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		17	9.8	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
1,1-Dichloroethane	ND		17	6.1	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
1,2-Dichloroethane	ND		17	4.9	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
1,1-Dichloroethene	ND		17	9.6	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
1,2-Dichloropropane	ND		17	8.3	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
1,4-Dioxane	ND		3400	120	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
Ethylbenzene	ND		17	7.3	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
2-Hexanone	ND		17	14	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
Isopropylbenzene	ND		17	7.8	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
Methyl acetate	ND		84	20	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
Methylcyclohexane	ND		17	7.1	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
Methylene Chloride	ND		17	8.0	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
4-Methyl-2-pentanone (MIBK)	ND		17	6.3	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
Methyl tert-butyl ether	ND		17	12	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
m-Xylene & p-Xylene	ND		17	6.3	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
o-Xylene	ND		17	8.2	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
Styrene	ND		17	4.5	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
1,1,2,2-Tetrachloroethane	ND		17	10	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
Tetrachloroethene	ND		17	6.7	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
Tetrahydrofuran	ND		34	25	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
Toluene	ND		17	5.7	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
trans-1,2-Dichloroethene	ND		17	8.5	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
trans-1,3-Dichloropropene	ND		17	5.8	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
1,2,3-Trichlorobenzene	ND		17	7.0	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
1,2,4-Trichlorobenzene	ND		17	5.4	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
1,1,1-Trichloroethane	ND		17	8.5	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
1,1,2-Trichloroethane	ND		17	8.1	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
Trichloroethene	ND		17	5.1	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
Trichlorofluoromethane	ND		17	4.9	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		17	6.4	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50
Vinyl chloride	ND		17	12	mg/Kg	♂	05/07/18 07:37	05/10/18 13:59	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sur)	86		62 - 124	05/07/18 07:37	05/10/18 13:59	50
Dibromofluoromethane (Sur)	99		61 - 120	05/07/18 07:37	05/10/18 13:59	50
1,2-Dichloroethane-d4 (Sur)	115		63 - 133	05/07/18 07:37	05/10/18 13:59	50
Toluene-d8 (Sur)	84		68 - 130	05/07/18 07:37	05/10/18 13:59	50

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L				1
2-Butanone (MEK)	0.15	J	0.20	0.12	mg/L				1
Carbon tetrachloride	ND		0.20	0.13	mg/L				1
Chlorobenzene	ND		0.20	0.063	mg/L				1
Chloroform	ND		0.20	0.085	mg/L				1
1,2-Dichloroethane	ND		0.20	0.058	mg/L				1
1,1-Dichloroethene	ND		0.20	0.11	mg/L				1
Tetrachloroethene	ND		0.20	0.080	mg/L				1
Trichloroethene	ND		0.20	0.060	mg/L				1
Vinyl chloride	ND		0.20	0.15	mg/L				1

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP217-050418

Date Collected: 05/04/18 13:27

Date Received: 05/05/18 10:30

Lab Sample ID: 180-77433-18

Matrix: Solid

Percent Solids: 74.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sur)	89		65 - 116		05/09/18 16:57	1
Dibromofluoromethane (Sur)	97		72 - 120		05/09/18 16:57	1
1,2-Dichloroethane-d4 (Sur)	117		64 - 137		05/09/18 16:57	1
Toluene-d8 (Sur)	97		82 - 132		05/09/18 16:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.9		0.1	0.1	%			05/09/18 13:39	1
Percent Solids	74.1		0.1	0.1	%			05/09/18 13:39	1

Client Sample ID: NLF-SS-PHASE1-SP218-050418

Date Collected: 05/04/18 13:33

Date Received: 05/05/18 10:30

Lab Sample ID: 180-77433-19

Matrix: Solid

Percent Solids: 75.2

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	*	1.3	0.21	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
Benzene	ND		0.33	0.13	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
Bromoform	ND		0.33	0.17	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
Bromomethane	ND		0.33	0.30	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
2-Butanone (MEK)	1.6		0.33	0.19	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
Carbon disulfide	ND		0.33	0.20	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
Carbon tetrachloride	ND		0.33	0.22	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
Chlorobenzene	ND		0.33	0.10	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
Chlorobromomethane	ND		0.33	0.13	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
Chlorodibromomethane	ND		0.33	0.16	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
Chloroethane	ND		0.33	0.17	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
Chloroform	ND		0.33	0.14	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
Chloromethane	ND		0.33	0.26	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
cis-1,2-Dichloroethene	ND		0.33	0.10	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
cis-1,3-Dichloropropene	ND		0.33	0.11	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
Cyclohexane	ND		0.33	0.081	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
1,2-Dibromo-3-Chloropropane	ND		0.33	0.20	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
1,2-Dibromoethane	ND		0.33	0.18	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
1,2-Dichlorobenzene	ND		0.33	0.27	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
1,3-Dichlorobenzene	ND		0.33	0.11	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
1,4-Dichlorobenzene	ND		0.33	0.068	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
Dichlorobromomethane	ND		0.33	0.16	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
Dichlorodifluoromethane	ND		0.33	0.19	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
1,1-Dichloroethane	ND		0.33	0.12	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
1,2-Dichloroethane	ND		0.33	0.097	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
1,1-Dichloroethene	ND		0.33	0.19	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
1,2-Dichloropropane	ND		0.33	0.16	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
1,4-Dioxane	ND		66	2.4	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
Ethylbenzene	ND		0.33	0.14	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
2-Hexanone	ND		0.33	0.28	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
Isopropylbenzene	ND		0.33	0.15	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
Methyl acetate	ND		1.7	0.39	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
Methylcyclohexane	ND		0.33	0.14	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1
Methylene Chloride	ND		0.33	0.16	mg/Kg	♂	05/07/18 07:37	05/10/18 14:27	1

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP218-050418

Lab Sample ID: 180-77433-19

Date Collected: 05/04/18 13:33

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 75.2

1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		0.33	0.12	mg/Kg	5	05/07/18 07:37	05/10/18 14:27	1
Methyl tert-butyl ether	ND		0.33	0.24	mg/Kg	5	05/07/18 07:37	05/10/18 14:27	1
m-Xylene & p-Xylene	ND		0.33	0.12	mg/Kg	5	05/07/18 07:37	05/10/18 14:27	1
o-Xylene	ND		0.33	0.16	mg/Kg	5	05/07/18 07:37	05/10/18 14:27	1
Styrene	ND		0.33	0.089	mg/Kg	5	05/07/18 07:37	05/10/18 14:27	1
1,1,2,2-Tetrachloroethane	ND		0.33	0.20	mg/Kg	5	05/07/18 07:37	05/10/18 14:27	1
Tetrachloroethene	ND		0.33	0.13	mg/Kg	5	05/07/18 07:37	05/10/18 14:27	1
Tetrahydrofuran	ND		0.66	0.50	mg/Kg	5	05/07/18 07:37	05/10/18 14:27	1
Toluene	ND		0.33	0.11	mg/Kg	5	05/07/18 07:37	05/10/18 14:27	1
trans-1,2-Dichloroethene	ND		0.33	0.17	mg/Kg	5	05/07/18 07:37	05/10/18 14:27	1
trans-1,3-Dichloropropene	ND		0.33	0.11	mg/Kg	5	05/07/18 07:37	05/10/18 14:27	1
1,2,3-Trichlorobenzene	ND		0.33	0.14	mg/Kg	5	05/07/18 07:37	05/10/18 14:27	1
1,2,4-Trichlorobenzene	ND		0.33	0.11	mg/Kg	5	05/07/18 07:37	05/10/18 14:27	1
1,1,1-Trichloroethane	ND		0.33	0.17	mg/Kg	5	05/07/18 07:37	05/10/18 14:27	1
1,1,2-Trichloroethane	ND		0.33	0.16	mg/Kg	5	05/07/18 07:37	05/10/18 14:27	1
Trichloroethene	ND		0.33	0.10	mg/Kg	5	05/07/18 07:37	05/10/18 14:27	1
Trichlorofluoromethane	ND		0.33	0.097	mg/Kg	5	05/07/18 07:37	05/10/18 14:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.33	0.13	mg/Kg	5	05/07/18 07:37	05/10/18 14:27	1
Vinyl chloride	ND		0.33	0.24	mg/Kg	5	05/07/18 07:37	05/10/18 14:27	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		62 - 124	05/07/18 07:37	05/10/18 14:27	1
Dibromofluoromethane (Surr)	100		61 - 120	05/07/18 07:37	05/10/18 14:27	1
1,2-Dichloroethane-d4 (Surr)	117		63 - 133	05/07/18 07:37	05/10/18 14:27	1
Toluene-d8 (Surr)	91		68 - 130	05/07/18 07:37	05/10/18 14:27	1

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Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L			05/09/18 17:19	1
2-Butanone (MEK)	0.42		0.20	0.12	mg/L			05/09/18 17:19	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/09/18 17:19	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/09/18 17:19	1
Chloroform	ND		0.20	0.085	mg/L			05/09/18 17:19	1
1,2-Dichloroethane	ND		0.20	0.058	mg/L			05/09/18 17:19	1
1,1-Dichloroethene	ND		0.20	0.11	mg/L			05/09/18 17:19	1
Tetrachloroethene	ND		0.20	0.080	mg/L			05/09/18 17:19	1
Trichloroethene	ND		0.20	0.060	mg/L			05/09/18 17:19	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/09/18 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		65 - 116	05/09/18 17:19		1
Dibromofluoromethane (Surr)	102		72 - 120	05/09/18 17:19		1
1,2-Dichloroethane-d4 (Surr)	121		64 - 137	05/09/18 17:19		1
Toluene-d8 (Surr)	100		82 - 132	05/09/18 17:19		1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.8		0.1	0.1	%			05/09/18 13:39	1
Percent Solids	75.2		0.1	0.1	%			05/09/18 13:39	1

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP219-050418

Date Collected: 05/04/18 13:34

Date Received: 05/05/18 10:30

Lab Sample ID: 180-77433-20

Matrix: Solid

Percent Solids: 72.6

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		340	53	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Benzene	ND		84	33	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Bromoform	ND		84	44	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Bromomethane	ND		84	76	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
2-Butanone (MEK)	530		84	49	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Carbon disulfide	ND		84	51	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Carbon tetrachloride	ND		84	56	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Chlorobenzene	ND		84	27	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Chlorobromomethane	ND		84	32	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Chlorodibromomethane	ND		84	41	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Chloroethane	ND		84	44	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Chloroform	ND		84	36	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Chloromethane	ND		84	65	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
cis-1,2-Dichloroethene	ND		84	27	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
cis-1,3-Dichloropropene	ND		84	27	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Cyclohexane	ND		84	21	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
1,2-Dibromo-3-Chloropropane	ND		84	52	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
1,2-Dibromoethane	ND		84	46	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
1,2-Dichlorobenzene	ND		84	68	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
1,3-Dichlorobenzene	ND		84	27	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
1,4-Dichlorobenzene	ND		84	17	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Dichlorobromomethane	ND		84	40	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Dichlorodifluoromethane	ND		84	49	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
1,1-Dichloroethane	ND		84	31	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
1,2-Dichloroethane	ND		84	25	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
1,1-Dichloroethene	ND		84	48	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
1,2-Dichloropropane	ND		84	41	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
1,4-Dioxane	ND		17000	620	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Ethylbenzene	ND		84	36	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
2-Hexanone	ND		84	71	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Isopropylbenzene	ND		84	39	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Methyl acetate	ND		420	100	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Methylcyclohexane	ND		84	35	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Methylene Chloride	ND		84	40	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
4-Methyl-2-pentanone (MIBK)	ND		84	31	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Methyl tert-butyl ether	ND		84	62	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
m-Xylene & p-Xylene	ND		84	32	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
o-Xylene	ND		84	41	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Styrene	ND		84	22	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
1,1,2,2-Tetrachloroethane	ND		84	50	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Tetrachloroethene	ND		84	34	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Tetrahydrofuran	ND		170	130	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
Toluene	ND		84	28	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
trans-1,2-Dichloroethene	ND		84	43	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
trans-1,3-Dichloropropene	ND		84	29	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
1,2,3-Trichlorobenzene	ND		84	35	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
1,2,4-Trichlorobenzene	ND		84	27	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
1,1,1-Trichloroethane	ND		84	42	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250
1,1,2-Trichloroethane	ND		84	41	mg/Kg	♂	05/07/18 07:37	05/10/18 14:56	250

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP219-050418

Lab Sample ID: 180-77433-20

Date Collected: 05/04/18 13:34

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 72.6

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		84	25	mg/Kg	☒	05/07/18 07:37	05/10/18 14:56	250
Trichlorofluoromethane	ND *		84	25	mg/Kg	☒	05/07/18 07:37	05/10/18 14:56	250
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		84	32	mg/Kg	☒	05/07/18 07:37	05/10/18 14:56	250
Vinyl chloride	ND		84	62	mg/Kg	☒	05/07/18 07:37	05/10/18 14:56	250
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84			62 - 124			05/07/18 07:37	05/10/18 14:56	250
Dibromofluoromethane (Surr)	94			61 - 120			05/07/18 07:37	05/10/18 14:56	250
1,2-Dichloroethane-d4 (Surr)	115			63 - 133			05/07/18 07:37	05/10/18 14:56	250
Toluene-d8 (Surr)	80			68 - 130			05/07/18 07:37	05/10/18 14:56	250

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L			05/09/18 17:41	1
2-Butanone (MEK)	0.12 J		0.20	0.12	mg/L			05/09/18 17:41	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/09/18 17:41	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/09/18 17:41	1
Chloroform	ND		0.20	0.085	mg/L			05/09/18 17:41	1
1,2-Dichloroethane	ND		0.20	0.058	mg/L			05/09/18 17:41	1
1,1-Dichloroethene	ND		0.20	0.11	mg/L			05/09/18 17:41	1
Tetrachloroethene	0.30		0.20	0.080	mg/L			05/09/18 17:41	1
Trichloroethene	ND		0.20	0.060	mg/L			05/09/18 17:41	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/09/18 17:41	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84			65 - 116			05/09/18 17:41		1
Dibromofluoromethane (Surr)	93			72 - 120			05/09/18 17:41		1
1,2-Dichloroethane-d4 (Surr)	112			64 - 137			05/09/18 17:41		1
Toluene-d8 (Surr)	89			82 - 132			05/09/18 17:41		1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27.4		0.1	0.1	%			05/09/18 13:39	1
Percent Solids	72.6		0.1	0.1	%			05/09/18 13:39	1

Client Sample ID: NLF-SS-PHASE1-SP220-050418

Lab Sample ID: 180-77433-21

Date Collected: 05/04/18 13:45

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 74.0

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	F1 *	1.4	0.21	mg/Kg	☒	05/07/18 07:37	05/10/18 12:57	1
Benzene	ND		0.34	0.13	mg/Kg	☒	05/07/18 07:37	05/10/18 12:57	1
Bromoform	ND		0.34	0.18	mg/Kg	☒	05/07/18 07:37	05/10/18 12:57	1
Bromomethane	ND		0.34	0.30	mg/Kg	☒	05/07/18 07:37	05/10/18 12:57	1
2-Butanone (MEK)	0.32 J		0.34	0.20	mg/Kg	☒	05/07/18 07:37	05/10/18 12:57	1
Carbon disulfide	ND		0.34	0.20	mg/Kg	☒	05/07/18 07:37	05/10/18 12:57	1
Carbon tetrachloride	ND		0.34	0.22	mg/Kg	☒	05/07/18 07:37	05/10/18 12:57	1
Chlorobenzene	ND		0.34	0.11	mg/Kg	☒	05/07/18 07:37	05/10/18 12:57	1
Chlorobromomethane	ND		0.34	0.13	mg/Kg	☒	05/07/18 07:37	05/10/18 12:57	1
Chlorodibromomethane	ND		0.34	0.16	mg/Kg	☒	05/07/18 07:37	05/10/18 12:57	1

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP220-050418

Lab Sample ID: 180-77433-21

Date Collected: 05/04/18 13:45

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 74.0

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		0.34	0.17	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
Chloroform	ND		0.34	0.14	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
Chloromethane	ND		0.34	0.26	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
cis-1,2-Dichloroethene	ND		0.34	0.11	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
cis-1,3-Dichloropropene	ND		0.34	0.11	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
Cyclohexane	ND		0.34	0.083	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
1,2-Dibromo-3-Chloropropane	ND		0.34	0.21	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
1,2-Dibromoethane	ND		0.34	0.18	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
1,2-Dichlorobenzene	ND		0.34	0.27	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
1,3-Dichlorobenzene	ND		0.34	0.11	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
1,4-Dichlorobenzene	ND		0.34	0.069	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
Dichlorobromomethane	ND		0.34	0.16	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
Dichlorodifluoromethane	ND		0.34	0.20	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
1,1-Dichloroethane	ND		0.34	0.12	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
1,2-Dichloroethane	ND		0.34	0.098	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
1,1-Dichloroethene	ND		0.34	0.19	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
1,2-Dichloropropane	ND		0.34	0.17	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
1,4-Dioxane	ND		68	2.5	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
Ethylbenzene	ND		0.34	0.15	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
2-Hexanone	ND		0.34	0.28	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
Isopropylbenzene	ND		0.34	0.16	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
Methyl acetate	ND		1.7	0.40	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
Methylcyclohexane	ND		0.34	0.14	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
Methylene Chloride	ND		0.34	0.16	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
4-Methyl-2-pentanone (MIBK)	ND		0.34	0.13	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
Methyl tert-butyl ether	ND		0.34	0.25	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
m-Xylene & p-Xylene	ND		0.34	0.13	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
o-Xylene	ND		0.34	0.17	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
Styrene	ND		0.34	0.090	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
1,1,2,2-Tetrachloroethane	ND		0.34	0.20	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
Tetrachloroethene	ND		0.34	0.14	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
Tetrahydrofuran	ND		0.68	0.50	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
Toluene	ND		0.34	0.11	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
trans-1,2-Dichloroethene	ND		0.34	0.17	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
trans-1,3-Dichloropropene	ND		0.34	0.12	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
1,2,3-Trichlorobenzene	ND		0.34	0.14	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
1,2,4-Trichlorobenzene	ND		0.34	0.11	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
1,1,1-Trichloroethane	ND		0.34	0.17	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
1,1,2-Trichloroethane	ND		0.34	0.16	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
Trichloroethene	ND		0.34	0.10	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
Trichlorofluoromethane	ND F1 *		0.34	0.098	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.34	0.13	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
Vinyl chloride	ND		0.34	0.25	mg/Kg	✉	05/07/18 07:37	05/10/18 12:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Sur)	95		62 - 124			05/07/18 07:37	05/10/18 12:57	1	
Dibromofluoromethane (Sur)	94		61 - 120			05/07/18 07:37	05/10/18 12:57	1	
1,2-Dichloroethane-d4 (Sur)	110		63 - 133			05/07/18 07:37	05/10/18 12:57	1	
Toluene-d8 (Sur)	83		68 - 130			05/07/18 07:37	05/10/18 12:57	1	

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP220-050418

Lab Sample ID: 180-77433-21

Date Collected: 05/04/18 13:45

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 74.0

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L			05/07/18 13:06	1
2-Butanone (MEK)	ND		0.20	0.12	mg/L			05/07/18 13:06	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/07/18 13:06	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/07/18 13:06	1
Chloroform	ND		0.20	0.085	mg/L			05/07/18 13:06	1
1,2-Dichloroethane	ND		0.20	0.058	mg/L			05/07/18 13:06	1
1,1-Dichloroethene	ND		0.20	0.11	mg/L			05/07/18 13:06	1
Tetrachloroethylene	ND F1		0.20	0.080	mg/L			05/07/18 13:06	1
Trichloroethylene	ND F1		0.20	0.060	mg/L			05/07/18 13:06	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/07/18 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromoiodobenzene (Surrogate)	83		65 - 116		05/07/18 13:06	1
Dibromoiodomethane (Surrogate)	92		72 - 120		05/07/18 13:06	1
1,2-Dichloroethane-d4 (Surrogate)	104		64 - 137		05/07/18 13:06	1
Toluene-d8 (Surrogate)	93		82 - 132		05/07/18 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.0		0.1	0.1	%			05/09/18 13:39	1
Percent Solids	74.0		0.1	0.1	%			05/09/18 13:39	1

Client Sample ID: NLF-SS-PHASE1-SP221-050418

Lab Sample ID: 180-77433-22

Date Collected: 05/04/18 13:55

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 74.0

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		1.4	0.21	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
Benzene	ND		0.34	0.13	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
Bromoform	ND		0.34	0.18	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
Bromomethane	ND		0.34	0.30	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
2-Butanone (MEK)	1.8		0.34	0.20	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
Carbon disulfide	ND		0.34	0.20	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
Carbon tetrachloride	ND		0.34	0.22	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
Chlorobenzene	ND		0.34	0.11	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
Chlorobromomethane	ND		0.34	0.13	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
Chlorodibromomethane	ND		0.34	0.16	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
Chloroethane	ND		0.34	0.17	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
Chloroform	ND		0.34	0.14	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
Chloromethane	ND		0.34	0.26	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
cis-1,2-Dichloroethene	ND		0.34	0.11	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
cis-1,3-Dichloropropene	ND		0.34	0.11	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
Cyclohexane	ND		0.34	0.083	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
1,2-Dibromo-3-Chloropropane	ND		0.34	0.21	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
1,2-Dibromoethane	ND		0.34	0.18	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
1,2-Dichlorobenzene	ND		0.34	0.27	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
1,3-Dichlorobenzene	ND		0.34	0.11	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
1,4-Dichlorobenzene	ND		0.34	0.069	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1
Dichlorobromomethane	ND		0.34	0.16	mg/Kg	✉	05/07/18 07:37	05/10/18 15:24	1

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP221-050418

Lab Sample ID: 180-77433-22

Date Collected: 05/04/18 13:55

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 74.0

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.34	0.20	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
1,1-Dichloroethane	ND		0.34	0.12	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
1,2-Dichloroethane	ND		0.34	0.098	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
1,1-Dichloroethene	ND		0.34	0.19	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
1,2-Dichloropropane	ND		0.34	0.17	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
1,4-Dioxane	ND		68	2.5	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
Ethylbenzene	ND		0.34	0.15	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
2-Hexanone	ND		0.34	0.28	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
Isopropylbenzene	ND		0.34	0.16	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
Methyl acetate	ND		1.7	0.40	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
Methylcyclohexane	ND		0.34	0.14	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
Methylene Chloride	ND		0.34	0.16	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
4-Methyl-2-pentanone (MIBK)	ND		0.34	0.13	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
Methyl tert-butyl ether	ND		0.34	0.25	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
m-Xylene & p-Xylene	ND		0.34	0.13	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
o-Xylene	ND		0.34	0.17	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
Styrene	ND		0.34	0.090	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
1,1,2,2-Tetrachloroethane	ND		0.34	0.20	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
Tetrachloroethene	ND		0.34	0.14	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
Tetrahydrofuran	ND		0.68	0.50	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
Toluene	ND		0.34	0.11	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
trans-1,2-Dichloroethene	ND		0.34	0.17	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
trans-1,3-Dichloropropene	ND		0.34	0.12	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
1,2,3-Trichlorobenzene	ND		0.34	0.14	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
1,2,4-Trichlorobenzene	ND		0.34	0.11	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
1,1,1-Trichloroethane	ND		0.34	0.17	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
1,1,2-Trichloroethane	ND		0.34	0.16	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
Trichloroethene	ND		0.34	0.10	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
Trichlorofluoromethane	ND		0.34	0.098	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.34	0.13	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1
Vinyl chloride	ND		0.34	0.25	mg/Kg	♂	05/07/18 07:37	05/10/18 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sur)	86		62 - 124	05/07/18 07:37	05/10/18 15:24	1
Dibromofluoromethane (Sur)	94		61 - 120	05/07/18 07:37	05/10/18 15:24	1
1,2-Dichloroethane-d4 (Surr)	117		63 - 133	05/07/18 07:37	05/10/18 15:24	1
Toluene-d8 (Surr)	77		68 - 130	05/07/18 07:37	05/10/18 15:24	1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L			05/09/18 18:03	1
2-Butanone (MEK)	ND		0.20	0.12	mg/L			05/09/18 18:03	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/09/18 18:03	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/09/18 18:03	1
Chloroform	ND		0.20	0.085	mg/L			05/09/18 18:03	1
1,2-Dichloroethane	ND		0.20	0.058	mg/L			05/09/18 18:03	1
1,1-Dichloroethene	ND		0.20	0.11	mg/L			05/09/18 18:03	1
Tetrachloroethene	ND		0.20	0.080	mg/L			05/09/18 18:03	1
Trichloroethene	ND		0.20	0.060	mg/L			05/09/18 18:03	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/09/18 18:03	1

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP221-050418

Lab Sample ID: 180-77433-22

Date Collected: 05/04/18 13:55

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 74.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromo fluoro benzene (Sur)	83		65 - 116		05/09/18 18:03	1
Dibromo fluoro methane (Sur)	97		72 - 120		05/09/18 18:03	1
1,2-Dichloroethane-d4 (Surr)	113		64 - 137		05/09/18 18:03	1
Toluene-d8 (Sur)	100		82 - 132		05/09/18 18:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.0		0.1	0.1	%		05/09/18 13:39		1
Percent Solids	74.0		0.1	0.1	%		05/09/18 13:39		1

Client Sample ID: NLF-SS-PHASE1-SP222-050418

Lab Sample ID: 180-77433-23

Date Collected: 05/04/18 14:01

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.2

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		13	2.1	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Benzene	ND		3.3	1.3	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Bromoform	ND		3.3	1.7	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Bromomethane	ND		3.3	2.9	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
2-Butanone (MEK)	20		3.3	1.9	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Carbon disulfide	ND		3.3	2.0	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Carbon tetrachloride	ND		3.3	2.2	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Chlorobenzene	ND		3.3	1.0	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Chlorobromomethane	ND		3.3	1.3	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Chlorodibromomethane	ND		3.3	1.6	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Chloroethane	ND		3.3	1.7	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Chloroform	ND		3.3	1.4	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Chloromethane	ND		3.3	2.5	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
cis-1,2-Dichloroethene	ND		3.3	1.0	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
cis-1,3-Dichloropropene	ND		3.3	1.0	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Cyclohexane	ND		3.3	0.80	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
1,2-Dibromo-3-Chloropropane	ND		3.3	2.0	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
1,2-Dibromoethane	ND		3.3	1.8	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
1,2-Dichlorobenzene	ND		3.3	2.6	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
1,3-Dichlorobenzene	ND		3.3	1.0	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
1,4-Dichlorobenzene	ND		3.3	0.67	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Dichlorobromomethane	ND		3.3	1.5	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Dichlorodifluoromethane	ND		3.3	1.9	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
1,1-Dichloroethane	ND		3.3	1.2	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
1,2-Dichloroethane	ND		3.3	0.95	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
1,1-Dichloroethene	ND		3.3	1.9	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
1,2-Dichloropropane	ND		3.3	1.6	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
1,4-Dioxane	ND		660	24	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Ethylbenzene	ND		3.3	1.4	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
2-Hexanone	ND		3.3	2.7	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Isopropylbenzene	ND		3.3	1.5	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Methyl acetate	ND		16	3.9	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Methylcyclohexane	ND		3.3	1.4	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Methylene Chloride	ND		3.3	1.5	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP222-050418

Lab Sample ID: 180-77433-23

Date Collected: 05/04/18 14:01

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.2

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		3.3	1.2	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Methyl tert-butyl ether	ND		3.3	2.4	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
m-Xylene & p-Xylene	ND		3.3	1.2	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
o-Xylene	ND		3.3	1.6	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Styrene	ND		3.3	0.87	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
1,1,2,2-Tetrachloroethane	ND		3.3	2.0	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Tetrachloroethylene	ND		3.3	1.3	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Tetrahydrofuran	ND		6.6	4.9	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Toluene	ND		3.3	1.1	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
trans-1,2-Dichloroethylene	ND		3.3	1.7	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
trans-1,3-Dichloropropene	ND		3.3	1.1	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
1,2,3-Trichlorobenzene	ND		3.3	1.4	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
1,2,4-Trichlorobenzene	ND		3.3	1.1	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
1,1,1-Trichloroethylene	ND		3.3	1.6	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
1,1,2-Trichloroethylene	ND		3.3	1.6	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Trichloroethylene	ND		3.3	0.99	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Trichlorofluoromethane	ND		3.3	0.96	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.3	1.3	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10
Vinyl chloride	ND		3.3	2.4	mg/Kg	✉	05/07/18 07:37	05/11/18 11:16	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		62 - 124	05/07/18 07:37	05/11/18 11:16	10
Dibromofluoromethane (Surr)	103		61 - 120	05/07/18 07:37	05/11/18 11:16	10
1,2-Dichloroethane-d4 (Surr)	122		63 - 133	05/07/18 07:37	05/11/18 11:16	10
Toluene-d8 (Surr)	93		68 - 130	05/07/18 07:37	05/11/18 11:16	10

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L			05/09/18 18:25	1
2-Butanone (MEK)	ND		0.20	0.12	mg/L			05/09/18 18:25	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/09/18 18:25	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/09/18 18:25	1
Chloroform	ND		0.20	0.085	mg/L			05/09/18 18:25	1
1,2-Dichloroethylene	ND		0.20	0.058	mg/L			05/09/18 18:25	1
1,1-Dichloroethylene	ND		0.20	0.11	mg/L			05/09/18 18:25	1
Tetrachloroethylene	ND		0.20	0.080	mg/L			05/09/18 18:25	1
Trichloroethylene	ND		0.20	0.060	mg/L			05/09/18 18:25	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/09/18 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		65 - 116	05/09/18 18:25	1	
Dibromofluoromethane (Surr)	98		72 - 120	05/09/18 18:25	1	
1,2-Dichloroethane-d4 (Surr)	119		64 - 137	05/09/18 18:25	1	
Toluene-d8 (Surr)	108		82 - 132	05/09/18 18:25	1	

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.8		0.1	0.1	%			05/09/18 13:39	1
Percent Solids	76.2		0.1	0.1	%			05/09/18 13:39	1

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP223-050418

Lab Sample ID: 180-77433-24

Date Collected: 05/04/18 14:07

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 92.5

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		27	4.3	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Benzene	ND		6.8	2.7	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Bromoform	ND		6.8	3.5	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Bromomethane	ND		6.8	6.1	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
2-Butanone (MEK)	45		6.8	3.9	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Carbon disulfide	ND		6.8	4.1	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Carbon tetrachloride	ND		6.8	4.5	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Chlorobenzene	ND		6.8	2.1	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Chlorobromomethane	ND		6.8	2.6	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Chlorodibromomethane	ND		6.8	3.3	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Chloroethane	ND		6.8	3.5	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Chloroform	ND		6.8	2.9	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Chloromethane	ND		6.8	5.2	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
cis-1,2-Dichloroethene	ND		6.8	2.1	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
cis-1,3-Dichloropropene	ND		6.8	2.2	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Cyclohexane	ND		6.8	1.7	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
1,2-Dibromo-3-Chloropropane	ND		6.8	4.2	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
1,2-Dibromoethane	ND		6.8	3.7	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
1,2-Dichlorobenzene	ND		6.8	5.4	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
1,3-Dichlorobenzene	ND		6.8	2.2	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
1,4-Dichlorobenzene	ND		6.8	1.4	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Dichlorobromomethane	ND		6.8	3.2	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Dichlorodifluoromethane	ND		6.8	3.9	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
1,1-Dichloroethane	ND		6.8	2.4	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
1,2-Dichloroethane	ND		6.8	2.0	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
1,1-Dichloroethene	ND		6.8	3.9	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
1,2-Dichloropropane	ND		6.8	3.3	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
1,4-Dioxane	ND	1400	4.9	mg/Kg		o	05/07/18 07:37	05/10/18 18:13	25
Ethylbenzene	ND		6.8	2.9	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
2-Hexanone	ND		6.8	5.7	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Isopropylbenzene	ND		6.8	3.1	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Methyl acetate	ND		34	8.0	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Methylcyclohexane	ND		6.8	2.8	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Methylene Chloride	ND		6.8	3.2	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
4-Methyl-2-pentanone (MIBK)	ND		6.8	2.5	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Methyl tert-butyl ether	ND		6.8	5.0	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
m-Xylene & p-Xylene	ND		6.8	2.5	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
o-Xylene	ND		6.8	3.3	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Styrene	ND		6.8	1.8	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
1,1,2,2-Tetrachloroethane	ND		6.8	4.0	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Tetrachloroethene	ND		6.8	2.7	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Tetrahydrofuran	ND		14	10	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
Toluene	ND		6.8	2.3	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
trans-1,2-Dichloroethene	ND		6.8	3.4	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
trans-1,3-Dichloropropene	ND		6.8	2.3	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
1,2,3-Trichlorobenzene	ND		6.8	2.8	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
1,2,4-Trichlorobenzene	ND		6.8	2.2	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
1,1,1-Trichloroethane	ND		6.8	3.4	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25
1,1,2-Trichloroethane	ND		6.8	3.2	mg/Kg	o	05/07/18 07:37	05/10/18 18:13	25

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP223-050418

Date Collected: 05/04/18 14:07

Date Received: 05/05/18 10:30

Lab Sample ID: 180-77433-24

Matrix: Solid

Percent Solids: 92.5

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND	*	6.8	2.0	mg/Kg	✉	05/07/18 07:37	05/10/18 18:13	25
Trichlorofluoromethane	ND	*	6.8	2.0	mg/Kg	✉	05/07/18 07:37	05/10/18 18:13	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	6.8	2.6	mg/Kg	✉	05/07/18 07:37	05/10/18 18:13	25
Vinyl chloride	ND	*	6.8	5.0	mg/Kg	✉	05/07/18 07:37	05/10/18 18:13	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		62 - 124				05/07/18 07:37	05/10/18 18:13	25
Dibromofluoromethane (Surr)	99		61 - 120				05/07/18 07:37	05/10/18 18:13	25
1,2-Dichloroethane-d4 (Surr)	122		63 - 133				05/07/18 07:37	05/10/18 18:13	25
Toluene-d8 (Surr)	81		68 - 130				05/07/18 07:37	05/10/18 18:13	25

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L			05/09/18 18:47	1
2-Butanone (MEK)	0.40		0.20	0.12	mg/L			05/09/18 18:47	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/09/18 18:47	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/09/18 18:47	1
Chloroform	ND		0.20	0.085	mg/L			05/09/18 18:47	1
1,2-Dichloroethane	ND		0.20	0.058	mg/L			05/09/18 18:47	1
1,1-Dichloroethene	ND		0.20	0.11	mg/L			05/09/18 18:47	1
Tetrachloroethene	ND		0.20	0.080	mg/L			05/09/18 18:47	1
Trichloroethene	ND		0.20	0.060	mg/L			05/09/18 18:47	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/09/18 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sum)	109		65 - 116				05/09/18 18:47		1
Dibromofluoromethane (Sum)	99		72 - 120				05/09/18 18:47		1
1,2-Dichloroethane-d4 (Surr)	121		64 - 137				05/09/18 18:47		1
Toluene-d8 (Surr)	98		82 - 132				05/09/18 18:47		1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.5		0.1	0.1	%			05/09/18 13:39	1
Percent Solids	92.5		0.1	0.1	%			05/09/18 13:39	1

Client Sample ID: NLF-SS-PHASE1-SP224-050418

Date Collected: 05/04/18 14:13

Date Received: 05/05/18 10:30

Lab Sample ID: 180-77433-25

Matrix: Solid

Percent Solids: 87.2

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	*	110	18	mg/Kg	✉	05/07/18 07:37	05/10/18 18:42	100
Benzene	ND		29	11	mg/Kg	✉	05/07/18 07:37	05/10/18 18:42	100
Bromoform	ND		29	15	mg/Kg	✉	05/07/18 07:37	05/10/18 18:42	100
Bromomethane	ND		29	26	mg/Kg	✉	05/07/18 07:37	05/10/18 18:42	100
2-Butanone (MEK)	170		29	17	mg/Kg	✉	05/07/18 07:37	05/10/18 18:42	100
Carbon disulfide	ND		29	17	mg/Kg	✉	05/07/18 07:37	05/10/18 18:42	100
Carbon tetrachloride	ND		29	19	mg/Kg	✉	05/07/18 07:37	05/10/18 18:42	100
Chlorobenzene	ND		29	9.0	mg/Kg	✉	05/07/18 07:37	05/10/18 18:42	100
Chlorobromomethane	ND		29	11	mg/Kg	✉	05/07/18 07:37	05/10/18 18:42	100
Chlorodibromomethane	ND		29	14	mg/Kg	✉	05/07/18 07:37	05/10/18 18:42	100

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP224-050418

Lab Sample ID: 180-77433-25

Date Collected: 05/04/18 14:13

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 87.2

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		29	15	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
Chloroform	ND		29	12	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
Chloromethane	ND		29	22	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
cis-1,2-Dichloroethene	ND		29	9.0	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
cis-1,3-Dichloropropene	ND		29	9.2	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
Cyclohexane	ND		29	7.0	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
1,2-Dibromo-3-Chloropropane	ND		29	18	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
1,2-Dibromoethane	ND		29	16	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
1,2-Dichlorobenzene	ND		29	23	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
1,3-Dichlorobenzene	ND		29	9.1	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
1,4-Dichlorobenzene	ND		29	5.8	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
Dichlorobromomethane	ND		29	14	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
Dichlorodifluoromethane	ND		29	17	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
1,1-Dichloroethane	ND		29	10	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
1,2-Dichloroethane	ND		29	8.3	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
1,1-Dichloroethene	ND		29	16	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
1,2-Dichloropropane	ND		29	14	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
1,4-Dioxane	ND		5700	210	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
Ethylbenzene	ND		29	12	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
2-Hexanone	ND		29	24	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
Isopropylbenzene	ND		29	13	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
Methyl acetate	ND		140	34	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
Methylcyclohexane	ND		29	12	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
Methylene Chloride	ND		29	14	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
4-Methyl-2-pentanone (MIBK)	ND		29	11	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
Methyl tert-butyl ether	ND		29	21	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
m-Xylene & p-Xylene	ND		29	11	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
o-Xylene	ND		29	14	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
Styrene	ND		29	7.6	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
1,1,2,2-Tetrachloroethane	ND		29	17	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
Tetrachloroethene	ND		29	11	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
Tetrahydrofuran	ND		57	43	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
Toluene	ND		29	9.7	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
trans-1,2-Dichloroethene	ND		29	15	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
trans-1,3-Dichloropropene	ND		29	9.9	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
1,2,3-Trichlorobenzene	ND		29	12	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
1,2,4-Trichlorobenzene	ND		29	9.2	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
1,1,1-Trichloroethane	ND		29	14	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
1,1,2-Trichloroethane	ND		29	14	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
Trichloroethene	ND		29	8.6	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
Trichlorofluoromethane	ND		29	8.3	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		29	11	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
Vinyl chloride	ND		29	21	mg/Kg	♂	05/07/18 07:37	05/10/18 18:42	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Sur)	88		62 - 124			05/07/18 07:37	05/10/18 18:42	100	
Dibromofluoromethane (Sur)	100		61 - 120			05/07/18 07:37	05/10/18 18:42	100	
1,2-Dichloroethane-d4 (Sur)	127		63 - 133			05/07/18 07:37	05/10/18 18:42	100	
Toluene-d8 (Sur)	78		68 - 130			05/07/18 07:37	05/10/18 18:42	100	

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Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP224-050418

Lab Sample ID: 180-77433-25

Date Collected: 05/04/18 14:13

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 87.2

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L			05/09/18 19:09	1
2-Butanone (MEK)	1.2		0.20	0.12	mg/L			05/09/18 19:09	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/09/18 19:09	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/09/18 19:09	1
Chloroform	ND		0.20	0.085	mg/L			05/09/18 19:09	1
1,2-Dichloroethane	ND		0.20	0.058	mg/L			05/09/18 19:09	1
1,1-Dichloroethene	ND		0.20	0.11	mg/L			05/09/18 19:09	1
Tetrachloroethylene	ND		0.20	0.080	mg/L			05/09/18 19:09	1
Trichloroethylene	ND		0.20	0.060	mg/L			05/09/18 19:09	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/09/18 19:09	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sur)	140	X		65 - 116				05/09/18 19:09	1
Dibromofluoromethane (Sur)	105			72 - 120				05/09/18 19:09	1
1,2-Dichloroethane-d4 (Sur)	122			64 - 137				05/09/18 19:09	1
Toluene-d8 (Sur)	101			82 - 132				05/09/18 19:09	1

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General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.8		0.1	0.1	%			05/09/18 13:39	1
Percent Solids	87.2		0.1	0.1	%			05/09/18 13:39	1

Client Sample ID: NLF-SS-PHASE1-SP225-050418

Lab Sample ID: 180-77433-26

Date Collected: 05/04/18 14:19

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.4

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		13	2.1	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
Benzene	ND		3.3	1.3	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
Bromoform	ND		3.3	1.7	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
Bromomethane	ND		3.3	2.9	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
2-Butanone (MEK)	21		3.3	1.9	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
Carbon disulfide	ND		3.3	2.0	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
Carbon tetrachloride	ND		3.3	2.2	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
Chlorobenzene	ND		3.3	1.0	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
Chlorobromomethane	ND		3.3	1.3	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
Chlorodibromomethane	ND		3.3	1.6	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
Chloroethane	ND		3.3	1.7	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
Chloroform	ND		3.3	1.4	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
Chloromethane	ND		3.3	2.5	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
cis-1,2-Dichloroethene	ND		3.3	1.0	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
cis-1,3-Dichloropropene	ND		3.3	1.0	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
Cyclohexane	ND		3.3	0.80	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
1,2-Dibromo-3-Chloropropane	ND		3.3	2.0	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
1,2-Dibromoethane	ND		3.3	1.8	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
1,2-Dichlorobenzene	ND		3.3	2.6	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
1,3-Dichlorobenzene	ND		3.3	1.0	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
1,4-Dichlorobenzene	ND		3.3	0.67	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10
Dichlorobromomethane	ND		3.3	1.5	mg/Kg	✉	05/07/18 07:37	05/11/18 11:44	10

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Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP225-050418

Lab Sample ID: 180-77433-26

Date Collected: 05/04/18 14:19

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.4

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		3.3	1.9	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
1,1-Dichloroethane	ND		3.3	1.2	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
1,2-Dichloroethane	ND		3.3	0.95	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
1,1-Dichloroethene	ND		3.3	1.9	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
1,2-Dichloropropane	ND		3.3	1.6	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
1,4-Dioxane	ND		650	24	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
Ethylbenzene	ND		3.3	1.4	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
2-Hexanone	ND		3.3	2.7	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
Isopropylbenzene	ND		3.3	1.5	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
Methyl acetate	ND		16	3.9	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
Methylcyclohexane	ND		3.3	1.4	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
Methylene Chloride	ND		3.3	1.5	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
4-Methyl-2-pentanone (MIBK)	1.9	J	3.3	1.2	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
Methyl tert-butyl ether	ND		3.3	2.4	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
m-Xylene & p-Xylene	ND		3.3	1.2	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
o-Xylene	ND		3.3	1.6	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
Styrene	ND		3.3	0.87	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
1,1,2,2-Tetrachloroethane	ND		3.3	2.0	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
Tetrachloroethene	ND		3.3	1.3	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
Tetrahydrofuran	ND		6.5	4.9	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
Toluene	ND		3.3	1.1	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
trans-1,2-Dichloroethene	ND		3.3	1.7	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
trans-1,3-Dichloropropene	ND		3.3	1.1	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
1,2,3-Trichlorobenzene	ND		3.3	1.4	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
1,2,4-Trichlorobenzene	ND		3.3	1.1	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
1,1,1-Trichloroethane	ND		3.3	1.6	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
1,1,2-Trichloroethane	ND		3.3	1.6	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
Trichloroethene	ND		3.3	0.98	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
Trichlorofluoromethane	ND *		3.3	0.95	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.3	1.2	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10
Vinyl chloride	ND		3.3	2.4	mg/Kg	o	05/07/18 07:37	05/11/18 11:44	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		62 - 124	05/07/18 07:37	05/11/18 11:44	10
Dibromofluoromethane (Surr)	99		61 - 120	05/07/18 07:37	05/11/18 11:44	10
1,2-Dichloroethane-d4 (Surr)	119		63 - 133	05/07/18 07:37	05/11/18 11:44	10
Toluene-d8 (Surr)	89		68 - 130	05/07/18 07:37	05/11/18 11:44	10

Method: EPA 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20	0.079	mg/L			05/09/18 19:31	1
2-Butanone (MEK)	0.18	J	0.20	0.12	mg/L			05/09/18 19:31	1
Carbon tetrachloride	ND		0.20	0.13	mg/L			05/09/18 19:31	1
Chlorobenzene	ND		0.20	0.063	mg/L			05/09/18 19:31	1
Chloroform	ND		0.20	0.085	mg/L			05/09/18 19:31	1
1,2-Dichloroethane	ND		0.20	0.058	mg/L			05/09/18 19:31	1
1,1-Dichloroethene	ND		0.20	0.11	mg/L			05/09/18 19:31	1
Tetrachloroethene	ND		0.20	0.080	mg/L			05/09/18 19:31	1
Trichloroethene	ND		0.20	0.060	mg/L			05/09/18 19:31	1
Vinyl chloride	ND		0.20	0.15	mg/L			05/09/18 19:31	1

TestAmerica Pittsburgh

Client Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Client Sample ID: NLF-SS-PHASE1-SP225-050418

Lab Sample ID: 180-77433-26

Date Collected: 05/04/18 14:19

Matrix: Solid

Date Received: 05/05/18 10:30

Percent Solids: 76.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sur)	82		65 - 116		05/09/18 19:31	1
Dibromofluoromethane (Sur)	96		72 - 120		05/09/18 19:31	1
1,2-Dichloroethane-d4 (Sur)	117		64 - 137		05/09/18 19:31	1
Toluene-d8 (Sur)	103		82 - 132		05/09/18 19:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MOL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.6		0.1	0.1	%			05/09/18 13:39	1
Percent Solids	76.4		0.1	0.1	%			05/09/18 13:39	1

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TestAmerica Pittsburgh

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-244128/1-A
Matrix: Solid
Analysis Batch: 244222

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 244128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		1.0	0.16	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Benzene	ND		0.25	0.098	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Bromoform	ND		0.25	0.13	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Bromomethane	ND		0.25	0.22	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
2-Butanone (MEK)	ND		0.25	0.14	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Carbon disulfide	ND		0.25	0.15	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Carbon tetrachloride	ND		0.25	0.17	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Chlorobenzene	ND		0.25	0.079	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Chlorobromomethane	ND		0.25	0.096	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Chlorodibromomethane	ND		0.25	0.12	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Chloroethane	ND		0.25	0.13	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Chloroform	ND		0.25	0.11	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Chloromethane	ND		0.25	0.19	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
cis-1,2-Dichloroethene	ND		0.25	0.079	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
cis-1,3-Dichloropropene	ND		0.25	0.080	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Cyclohexane	ND		0.25	0.061	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
1,2-Dibromo-3-Chloropropane	ND		0.25	0.15	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
1,2-Dibromoethane	ND		0.25	0.14	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
1,2-Dichlorobenzene	ND		0.25	0.20	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
1,3-Dichlorobenzene	ND		0.25	0.080	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
1,4-Dichlorobenzene	ND		0.25	0.051	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Dichlorobromomethane	ND		0.25	0.12	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Dichlorodifluoromethane	ND		0.25	0.15	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
1,1-Dichloroethane	ND		0.25	0.091	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
1,2-Dichloroethane	ND		0.25	0.073	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
1,1-Dichloroethene	ND		0.25	0.14	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
1,2-Dichloropropane	ND		0.25	0.12	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
1,4-Dioxane	ND		50	1.8	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Ethylbenzene	ND		0.25	0.11	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
2-Hexanone	ND		0.25	0.21	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Isopropylbenzene	ND		0.25	0.12	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Methyl acetate	ND		1.3	0.29	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Methylcyclohexane	ND		0.25	0.11	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Methylene Chloride	ND		0.25	0.12	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
4-Methyl-2-pentanone (MIBK)	ND		0.25	0.093	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Methyl tert-butyl ether	ND		0.25	0.18	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
m-Xylene & p-Xylene	ND		0.25	0.094	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
o-Xylene	ND		0.25	0.12	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Styrene	ND		0.25	0.067	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
1,1,2,2-Tetrachloroethane	ND		0.25	0.15	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Tetrachloroethene	ND		0.25	0.10	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Tetrahydrofuran	ND		0.50	0.37	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
Toluene	ND		0.25	0.084	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
trans-1,2-Dichloroethene	ND		0.25	0.13	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
trans-1,3-Dichloropropene	ND		0.25	0.086	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
1,2,3-Trichlorobenzene	ND		0.25	0.10	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
1,2,4-Trichlorobenzene	ND		0.25	0.081	mg/Kg	05/07/18 07:32	05/08/18 11:28		1
1,1,1-Trichloroethane	ND		0.25	0.13	mg/Kg	05/07/18 07:32	05/08/18 11:28		1

TestAmerica Pittsburgh

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-244128/1-A
Matrix: Solid
Analysis Batch: 244222

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 244128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.25	0.12	mg/Kg		05/07/18 07:32	05/08/18 11:28	1
Trichloroethene	ND		0.25	0.075	mg/Kg		05/07/18 07:32	05/08/18 11:28	1
Trichlorofluoromethane	ND		0.25	0.073	mg/Kg		05/07/18 07:32	05/08/18 11:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.25	0.095	mg/Kg		05/07/18 07:32	05/08/18 11:28	1
Vinyl chloride	ND		0.25	0.18	mg/Kg		05/07/18 07:32	05/08/18 11:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		62 - 124	05/07/18 07:32	05/08/18 11:28	1
Dibromofluoromethane (Surr)	94		61 - 120	05/07/18 07:32	05/08/18 11:28	1
1,2-Dichloroethane-d4 (Surr)	106		63 - 133	05/07/18 07:32	05/08/18 11:28	1
Toluene-d8 (Surr)	84		68 - 130	05/07/18 07:32	05/08/18 11:28	1

Lab Sample ID: MB 180-244128/1-A
Matrix: Solid
Analysis Batch: 244343

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 244128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		1.0	0.16	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Benzene	ND		0.25	0.098	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Bromoform	ND		0.25	0.13	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Bromomethane	ND		0.25	0.22	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
2-Butanone (MEK)	ND		0.25	0.14	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Carbon disulfide	ND		0.25	0.15	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Carbon tetrachloride	ND		0.25	0.17	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Chlorobenzene	ND		0.25	0.079	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Chlorobromomethane	ND		0.25	0.096	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Chlorodibromomethane	ND		0.25	0.12	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Chloroethane	ND		0.25	0.13	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Chloroform	ND		0.25	0.11	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Chloromethane	ND		0.25	0.19	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
cis-1,2-Dichloroethene	ND		0.25	0.079	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
cis-1,3-Dichloropropene	ND		0.25	0.080	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Cyclohexane	ND		0.25	0.061	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
1,2-Dibromo-3-Chloropropane	ND		0.25	0.15	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
1,2-Dibromoethane	ND		0.25	0.14	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
1,2-Dichlorobenzene	ND		0.25	0.20	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
1,3-Dichlorobenzene	ND		0.25	0.080	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
1,4-Dichlorobenzene	ND		0.25	0.051	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Dichlorobromomethane	ND		0.25	0.12	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Dichlorodifluoromethane	ND		0.25	0.15	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
1,1-Dichloroethane	ND		0.25	0.091	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
1,2-Dichloroethane	ND		0.25	0.073	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
1,1-Dichloroethylene	ND		0.25	0.14	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
1,2-Dichloropropane	ND		0.25	0.12	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
1,4-Dioxane	ND		50	1.8	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Ethylbenzene	ND		0.25	0.11	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
2-Hexanone	ND		0.25	0.21	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Isopropylbenzene	ND		0.25	0.12	mg/Kg		05/07/18 07:32	05/09/18 10:17	1

TestAmerica Pittsburgh

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-244128/1-A
Matrix: Solid
Analysis Batch: 244343

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 244128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	ND		1.3	0.29	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Methylcyclohexane	ND		0.25	0.11	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Methylene Chloride	ND		0.25	0.12	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
4-Methyl-2-pentanone (MIBK)	ND		0.25	0.093	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Methyl tert-butyl ether	ND		0.25	0.18	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
m-Xylene & p-Xylene	ND		0.25	0.094	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
o-Xylene	ND		0.25	0.12	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Styrene	ND		0.25	0.067	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
1,1,2,2-Tetrachloroethane	ND		0.25	0.15	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Tetrachloroethene	ND		0.25	0.10	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Tetrahydrofuran	ND		0.50	0.37	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Toluene	ND		0.25	0.084	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
trans-1,2-Dichloroethene	ND		0.25	0.13	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
trans-1,3-Dichloropropene	ND		0.25	0.086	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
1,2,3-Trichlorobenzene	ND		0.25	0.10	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
1,2,4-Trichlorobenzene	ND		0.25	0.081	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
1,1,1-Trichloroethane	ND		0.25	0.13	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
1,1,2-Trichloroethane	ND		0.25	0.12	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Trichloroethene	ND		0.25	0.075	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Trichlorofluoromethane	ND		0.25	0.073	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.25	0.095	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Vinyl chloride	ND		0.25	0.18	mg/Kg		05/07/18 07:32	05/09/18 10:17	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sur)	95		62 - 124				05/07/18 07:32	05/09/18 10:17	1
Dibromofluoromethane (Sur)	100		61 - 120				05/07/18 07:32	05/09/18 10:17	1
1,2-Dichloroethane-d4 (Sur)	113		63 - 133				05/07/18 07:32	05/09/18 10:17	1
Toluene-d8 (Sur)	89		68 - 130				05/07/18 07:32	05/09/18 10:17	1

Lab Sample ID: LCS 180-244128/2-A
Matrix: Solid
Analysis Batch: 244222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 244128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acetone	2.00	2.26		mg/Kg		113	16 - 150
Benzene	2.00	1.68		mg/Kg		84	74 - 117
Bromoform	2.00	2.07		mg/Kg		103	47 - 150
Bromomethane	2.00	2.29		mg/Kg		114	13 - 150
2-Butanone (MEK)	2.00	2.22		mg/Kg		111	29 - 150
Carbon disulfide	2.00	1.79		mg/Kg		90	61 - 132
Carbon tetrachloride	2.00	2.08		mg/Kg		104	63 - 134
Chlorobenzene	2.00	1.83		mg/Kg		91	77 - 117
Chlorobromomethane	2.00	1.60		mg/Kg		80	71 - 120
Chlorodibromomethane	2.00	2.13		mg/Kg		107	59 - 141
Chloroethane	2.00	1.94		mg/Kg		97	28 - 150
Chloroform	2.00	1.79		mg/Kg		90	70 - 122
Chloromethane	2.00	1.20		mg/Kg		60	36 - 148
cis-1,2-Dichloroethene	2.00	1.73		mg/Kg		87	72 - 117

TestAmerica Pittsburgh

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-244128/2-A
Matrix: Solid
Analysis Batch: 244222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 244128
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
cis-1,3-Dichloropropene	2.00	2.03		mg/Kg	101	70 - 132	
Cyclohexane	2.00	2.00		mg/Kg	100	65 - 126	
1,2-Dibromo-3-Chloropropane	2.00	1.92		mg/Kg	96	50 - 138	
1,2-Dibromoethane	2.00	1.71		mg/Kg	86	78 - 118	
1,2-Dichlorobenzene	2.00	1.77		mg/Kg	88	75 - 115	
1,3-Dichlorobenzene	2.00	1.81		mg/Kg	91	76 - 116	
1,4-Dichlorobenzene	2.00	1.84		mg/Kg	92	77 - 117	
Dichlorobromomethane	2.00	2.11		mg/Kg	105	65 - 139	
Dichlorodifluoromethane	2.00	0.770		mg/Kg	39	10 - 150	
1,1-Dichloroethane	2.00	1.74		mg/Kg	87	68 - 122	
1,2-Dichloroethane	2.00	1.89		mg/Kg	95	65 - 131	
1,1-Dichloroethene	2.00	1.80		mg/Kg	90	62 - 127	
1,2-Dichloropropane	2.00	1.65		mg/Kg	83	77 - 119	
1,4-Dioxane	40.0	33.3	J	mg/Kg	83	44 - 149	
Ethylbenzene	2.00	1.80		mg/Kg	90	76 - 116	
2-Hexanone	2.00	2.31		mg/Kg	115	31 - 150	
Isopropylbenzene	2.00	1.91		mg/Kg	96	70 - 124	
Methyl acetate	4.00	4.26		mg/Kg	106	59 - 143	
Methylcyclohexane	2.00	1.72		mg/Kg	86	75 - 118	
Methylene Chloride	2.00	1.57		mg/Kg	78	64 - 118	
4-Methyl-2-pentanone (MIBK)	2.00	2.53		mg/Kg	127	56 - 146	
Methyl tert-butyl ether	2.00	1.71		mg/Kg	86	63 - 129	
m-Xylene & p-Xylene	2.00	1.82		mg/Kg	91	77 - 117	
o-Xylene	2.00	1.83		mg/Kg	91	77 - 117	
Styrene	2.00	1.87		mg/Kg	93	77 - 117	
1,1,2,2-Tetrachloroethane	2.00	1.95		mg/Kg	98	66 - 127	
Tetrachloroethene	2.00	1.65		mg/Kg	82	77 - 118	
Tetrahydrofuran	4.00	4.15		mg/Kg	104	64 - 129	
Toluene	2.00	1.71		mg/Kg	85	73 - 122	
trans-1,2-Dichloroethene	2.00	1.73		mg/Kg	86	72 - 117	
trans-1,3-Dichloropropene	2.00	1.82		mg/Kg	91	65 - 133	
1,2,3-Trichlorobenzene	2.00	2.04		mg/Kg	102	50 - 143	
1,2,4-Trichlorobenzene	2.00	1.84		mg/Kg	92	50 - 144	
1,1,1-Trichloroethane	2.00	2.07		mg/Kg	103	68 - 131	
1,1,2-Trichloroethane	2.00	1.72		mg/Kg	86	77 - 117	
Trichloroethene	2.00	1.79		mg/Kg	89	75 - 121	
Trichlorofluoromethane	2.00	3.15	*	mg/Kg	157	18 - 150	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	1.76		mg/Kg	88	57 - 138	
Vinyl chloride	2.00	1.28		mg/Kg	64	41 - 142	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Sur)	90		62 - 124
Dibromofluoromethane (Sur)	88		61 - 120
1,2-Dichloroethane-d4 (Sur)	95		63 - 133
Toluene-d8 (Sur)	84		68 - 130

TestAmerica Pittsburgh

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-244128/2-A		Client Sample ID: Lab Control Sample					
Matrix: Solid		Prep Type: Total/NA					
Analysis Batch: 244343		Prep Batch: 244128					
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acetone	2.00	4.04		mg/Kg	202	16 - 150	
Benzene	2.00	1.79		mg/Kg	90	74 - 117	
Bromoform	2.00	2.13		mg/Kg	106	47 - 150	
Bromomethane	2.00	2.77		mg/Kg	139	13 - 150	
2-Butanone (MEK)	2.00	2.84		mg/Kg	142	29 - 150	
Carbon disulfide	2.00	2.10		mg/Kg	105	61 - 132	
Carbon tetrachloride	2.00	2.34		mg/Kg	117	63 - 134	
Chlorobenzene	2.00	1.90		mg/Kg	95	77 - 117	
Chlorobromomethane	2.00	1.78		mg/Kg	89	71 - 120	
Chlorodibromomethane	2.00	2.24		mg/Kg	112	59 - 141	
Chloroethane	2.00	2.34		mg/Kg	117	28 - 150	
Chloroform	2.00	1.97		mg/Kg	98	70 - 122	
Chloromethane	2.00	1.68		mg/Kg	84	36 - 148	
cis-1,2-Dichloroethene	2.00	1.81		mg/Kg	91	72 - 117	
cis-1,3-Dichloropropene	2.00	2.15		mg/Kg	107	70 - 132	
Cyclohexane	2.00	2.02		mg/Kg	101	65 - 126	
1,2-Dibromo-3-Chloropropane	2.00	1.74		mg/Kg	87	50 - 138	
1,2-Dibromoethane	2.00	1.86		mg/Kg	93	78 - 118	
1,2-Dichlorobenzene	2.00	1.80		mg/Kg	90	75 - 115	
1,3-Dichlorobenzene	2.00	1.86		mg/Kg	93	76 - 116	
1,4-Dichlorobenzene	2.00	1.86		mg/Kg	93	77 - 117	
Dichlorobromomethane	2.00	2.34		mg/Kg	117	65 - 139	
Dichlorodifluoromethane	2.00	1.69		mg/Kg	84	10 - 150	
1,1-Dichloroethane	2.00	1.92		mg/Kg	96	68 - 122	
1,2-Dichloroethane	2.00	2.05		mg/Kg	102	65 - 131	
1,1-Dichloroethene	2.00	2.04		mg/Kg	102	62 - 127	
1,2-Dichloropropane	2.00	1.81		mg/Kg	90	77 - 119	
1,4-Dioxane	40.0	37.6	J	mg/Kg	94	44 - 149	
Ethylbenzene	2.00	1.91		mg/Kg	95	76 - 116	
2-Hexanone	2.00	2.55	E	mg/Kg	128	31 - 150	
Isopropylbenzene	2.00	2.02		mg/Kg	101	70 - 124	
Methyl acetate	4.00	4.21		mg/Kg	105	59 - 143	
Methylcyclohexane	2.00	1.81		mg/Kg	91	75 - 118	
Methylene Chloride	2.00	1.67		mg/Kg	83	64 - 118	
4-Methyl-2-pentanone (MIBK)	2.00	2.53	E	mg/Kg	126	56 - 146	
Methyl tert-butyl ether	2.00	1.92		mg/Kg	96	63 - 129	
m-Xylene & p-Xylene	2.00	1.93		mg/Kg	97	77 - 117	
o-Xylene	2.00	1.92		mg/Kg	96	77 - 117	
Styrene	2.00	1.94		mg/Kg	97	77 - 117	
1,1,2,2-Tetrachloroethane	2.00	1.92		mg/Kg	96	66 - 127	
Tetrachloroethene	2.00	1.82		mg/Kg	91	77 - 118	
Tetrahydrofuran	4.00	4.42		mg/Kg	110	64 - 129	
Toluene	2.00	1.85		mg/Kg	92	73 - 122	
trans-1,2-Dichloroethene	2.00	1.84		mg/Kg	92	72 - 117	
trans-1,3-Dichloropropene	2.00	1.96		mg/Kg	98	65 - 133	
1,2,3-Trichlorobenzene	2.00	2.12		mg/Kg	106	50 - 143	
1,2,4-Trichlorobenzene	2.00	1.82		mg/Kg	91	50 - 144	
1,1,1-Trichloroethane	2.00	2.30		mg/Kg	115	68 - 131	

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TestAmerica Pittsburgh

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-244128/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 244343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,2-Trichloroethane	2.00	1.76		mg/Kg	88	77 - 117	
Trichloroethene	2.00	1.84		mg/Kg	92	75 - 121	
Trichlorofluoromethane	2.00	4.03		mg/Kg	202	18 - 150	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	2.32		mg/Kg	116	57 - 138	
Vinyl chloride	2.00	1.65		mg/Kg	83	41 - 142	
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Sum)	92		62 - 124				
Dibromofluoromethane (Sum)	92		61 - 120				
1,2-Dichloroethane-d4 (Sur)	100		63 - 133				
Toluene-d8 (Sur)	86		68 - 130				

Lab Sample ID: 180-77433-2 MS

Client Sample ID: NLF-SS-PHASE1-SP201-050418

Matrix: Solid

Analysis Batch: 244222

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acetone	ND	F1	2.63	4.14	F1	mg/Kg	○	157	16 - 150
Benzene	ND		2.63	2.13		mg/Kg	○	81	74 - 117
Bromoform	ND		2.63	2.55		mg/Kg	○	97	47 - 150
Bromomethane	ND		2.63	1.88		mg/Kg	○	72	13 - 150
2-Butanone (MEK)	1.2		2.63	4.10		mg/Kg	○	111	29 - 150
Carbon disulfide	ND		2.63	2.23		mg/Kg	○	85	61 - 132
Carbon tetrachloride	ND		2.63	2.63		mg/Kg	○	100	63 - 134
Chlorobenzene	ND		2.63	2.23		mg/Kg	○	85	77 - 117
Chlorobromomethane	ND		2.63	2.11		mg/Kg	○	80	71 - 120
Chlorodibromomethane	ND		2.63	2.67		mg/Kg	○	101	59 - 141
Chloroethane	ND		2.63	2.58		mg/Kg	○	98	28 - 150
Chloroform	ND		2.63	2.32		mg/Kg	○	88	70 - 122
Chloromethane	ND		2.63	1.47		mg/Kg	○	56	36 - 148
cis-1,2-Dichloroethene	ND		2.63	2.17		mg/Kg	○	83	72 - 117
cis-1,3-Dichloropropene	ND		2.63	2.60		mg/Kg	○	99	70 - 132
Cyclohexane	ND		2.63	2.29		mg/Kg	○	87	65 - 126
1,2-Dibromo-3-Chloropropane	ND		2.63	1.92		mg/Kg	○	73	50 - 138
1,2-Dibromoethane	ND		2.63	2.18		mg/Kg	○	83	78 - 118
1,2-Dichlorobenzene	ND		2.63	2.14		mg/Kg	○	81	75 - 115
1,3-Dichlorobenzene	ND		2.63	2.24		mg/Kg	○	85	76 - 116
1,4-Dichlorobenzene	ND		2.63	2.23		mg/Kg	○	85	77 - 117
Dichlorobromomethane	ND		2.63	2.73		mg/Kg	○	104	65 - 139
Dichlorodifluoromethane	ND		2.63	0.953		mg/Kg	○	36	10 - 150
1,1-Dichloroethane	ND		2.63	2.19		mg/Kg	○	83	68 - 122
1,2-Dichloroethane	ND		2.63	2.41		mg/Kg	○	92	65 - 131
1,1-Dichloroethene	ND		2.63	2.26		mg/Kg	○	86	62 - 127
1,2-Dichloropropane	ND		2.63	2.17		mg/Kg	○	83	77 - 119
1,4-Dioxane	ND	F2	52.6	26.7	J	mg/Kg	○	51	44 - 149
Ethylbenzene	ND		2.63	2.17		mg/Kg	○	83	76 - 116
2-Hexanone	ND		2.63	2.79		mg/Kg	○	106	31 - 150

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TestAmerica Pittsburgh

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-77433-2 MS				Client Sample ID: NLF-SS-PHASE1-SP201-050418							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 244222				Prep Batch: 244128							
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits		
Isopropylbenzene	ND		2.63	2.35		mg/Kg	o	89	70 - 124		
Methyl acetate	ND		2.63	4.80		mg/Kg	o	91	59 - 143		
Methylcyclohexane	ND		2.63	2.12		mg/Kg	o	81	75 - 118		
Methylene Chloride	ND F1		2.63	2.04		mg/Kg	o	78	64 - 118		
4-Methyl-2-pentanone (MIBK)	ND		2.63	2.74		mg/Kg	o	104	56 - 146		
Methyl tert-butyl ether	ND		2.63	2.21		mg/Kg	o	84	63 - 129		
m-Xylene & p-Xylene	ND		2.63	2.25		mg/Kg	o	86	77 - 117		
o-Xylene	ND		2.63	2.24		mg/Kg	o	85	77 - 117		
Styrene	ND		2.63	2.30		mg/Kg	o	88	77 - 117		
1,1,2,2-Tetrachloroethane	ND		2.63	2.28		mg/Kg	o	87	66 - 127		
Tetrachloroethene	ND		2.63	2.11		mg/Kg	o	80	77 - 118		
Tetrahydrofuran	ND		5.26	5.12		mg/Kg	o	97	64 - 129		
Toluene	ND		2.63	2.11		mg/Kg	o	80	73 - 122		
trans-1,2-Dichloroethene	ND		2.63	2.17		mg/Kg	o	83	72 - 117		
trans-1,3-Dichloropropene	ND		2.63	2.35		mg/Kg	o	89	65 - 133		
1,2,3-Trichlorobenzene	ND F2 F1		2.63	0.914 F1		mg/Kg	o	35	50 - 143		
1,2,4-Trichlorobenzene	ND F2 F1		2.63	1.30 F1		mg/Kg	o	49	50 - 144		
1,1,1-Trichloroethane	ND		2.63	2.65		mg/Kg	o	101	68 - 131		
1,1,2-Trichloroethane	ND		2.63	2.06		mg/Kg	o	78	77 - 117		
Trichloroethene	0.12 J		2.63	2.34		mg/Kg	o	84	75 - 121		
Trichlorofluoromethane	ND		2.63	3.72		mg/Kg	o	141	18 - 150		
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.63	2.49		mg/Kg	o	95	57 - 138		
Vinyl chloride	ND		2.63	1.51		mg/Kg	o	57	41 - 142		
Surrogate	MS %Recovery	MS Qualifier	MS Limits								
4-Bromofluorobenzene (Surr)	94		62 - 124								
Dibromofluoromethane (Surr)	94		61 - 120								
1,2-Dichloroethene-d4 (Surr)	101		63 - 133								
Toluene-d8 (Surr)	84		68 - 130								

Lab Sample ID: 180-77433-2 MSD

Matrix: Solid
Analysis Batch: 244222

Client Sample ID: NLF-SS-PHASE1-SP201-050418

Prep Type: Total/NA

Prep Batch: 244128

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acetone	ND F1		2.63	4.71	F1	mg/Kg	o	179	16 - 150	13	40
Benzene	ND		2.63	2.09		mg/Kg	o	80	74 - 117	2	15
Bromoform	ND		2.63	2.61		mg/Kg	o	99	47 - 150	2	16
Bromomethane	ND		2.63	1.78		mg/Kg	o	68	13 - 150	6	40
2-Butanone (MEK)	1.2		2.63	4.53		mg/Kg	o	127	29 - 150	10	40
Carbon disulfide	ND		2.63	2.28		mg/Kg	o	87	61 - 132	2	28
Carbon tetrachloride	ND		2.63	2.57		mg/Kg	o	98	63 - 134	2	21
Chlorobenzene	ND		2.63	2.23		mg/Kg	o	85	77 - 117	0	15
Chlorobromomethane	ND		2.63	2.06		mg/Kg	o	79	71 - 120	2	15
Chlorodibromomethane	ND		2.63	2.64		mg/Kg	o	100	59 - 141	1	17
Chloroethane	ND		2.63	2.53		mg/Kg	o	96	28 - 150	2	40
Chloroform	ND		2.63	2.25		mg/Kg	o	86	70 - 122	3	15

TestAmerica Pittsburgh

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-77433-2 MSD				Client Sample ID: NLF-SS-PHASE1-SP201-050418							
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Chloromethane	ND		2.63	1.52		mg/Kg	Q	58	36 - 148	3	40
cis-1,2-Dichloroethene	ND		2.63	2.15		mg/Kg	Q	82	72 - 117	1	15
cis-1,3-Dichloropropene	ND		2.63	2.62		mg/Kg	Q	100	70 - 132	1	22
Cyclohexane	ND		2.63	2.38		mg/Kg	Q	91	65 - 126	4	29
1,2-Dibromo-3-Chloropropane	ND		2.63	2.31		mg/Kg	Q	88	50 - 138	18	22
1,2-Dibromoethane	ND		2.63	2.24		mg/Kg	Q	85	78 - 118	3	15
1,2-Dichlorobenzene	ND		2.63	2.16		mg/Kg	Q	82	75 - 115	1	15
1,3-Dichlorobenzene	ND		2.63	2.21		mg/Kg	Q	84	76 - 116	1	15
1,4-Dichlorobenzene	ND		2.63	2.24		mg/Kg	Q	85	77 - 117	0	15
Dichlorobromomethane	ND		2.63	2.68		mg/Kg	Q	102	65 - 139	2	15
Dichlorodifluoromethane	ND		2.63	0.992		mg/Kg	Q	38	10 - 150	4	40
1,1-Dichloroethane	ND		2.63	2.19		mg/Kg	Q	83	68 - 122	0	15
1,2-Dichloroethane	ND		2.63	2.35		mg/Kg	Q	90	65 - 131	2	15
1,1-Dichloroethene	ND		2.63	2.21		mg/Kg	Q	84	62 - 127	2	19
1,2-Dichloropropane	ND		2.63	2.11		mg/Kg	Q	80	77 - 119	3	15
1,4-Dioxane	ND F2		52.5	41.8 J F2		mg/Kg	Q	80	44 - 149	44	40
Ethylbenzene	ND		2.63	2.20		mg/Kg	Q	84	76 - 116	1	15
2-Hexanone	ND		2.63	3.30 E		mg/Kg	Q	126	31 - 150	17	37
Isopropylbenzene	ND		2.63	2.29		mg/Kg	Q	87	70 - 124	2	18
Methyl acetate	ND		5.25	5.36		mg/Kg	Q	102	59 - 143	11	27
Methylcyclohexane	ND		2.63	2.09		mg/Kg	Q	79	75 - 118	2	23
Methylene Chloride	ND F1		2.63	1.63 F1		mg/Kg	Q	62	64 - 118	22	26
4-Methyl-2-pentanone (MIBK)	ND		2.63	3.31 E		mg/Kg	Q	126	56 - 146	19	22
Methyl tert-butyl ether	ND		2.63	2.24		mg/Kg	Q	85	63 - 129	1	30
m-Xylene & p-Xylene	ND		2.63	2.22		mg/Kg	Q	84	77 - 117	2	15
o-Xylene	ND		2.63	2.21		mg/Kg	Q	84	77 - 117	1	15
Styrene	ND		2.63	2.30		mg/Kg	Q	87	77 - 117	0	15
1,1,2,2-Tetrachloroethane	ND		2.63	2.39		mg/Kg	Q	91	66 - 127	5	24
Tetrachloroethene	ND		2.63	2.11		mg/Kg	Q	80	77 - 118	0	18
Tetrahydrofuran	ND		5.25	5.86		mg/Kg	Q	111	64 - 129	13	26
Toluene	ND		2.63	2.11		mg/Kg	Q	80	73 - 122	0	15
trans-1,2-Dichloroethene	ND		2.63	2.12		mg/Kg	Q	81	72 - 117	2	16
trans-1,3-Dichloropropene	ND		2.63	2.40		mg/Kg	Q	91	65 - 133	2	16
1,2,3-Trichlorobenzene	ND F2 F1		2.63	2.07 F2		mg/Kg	Q	79	50 - 143	77	24
1,2,4-Trichlorobenzene	ND F2 F1		2.63	2.00 F2		mg/Kg	Q	76	50 - 144	43	22
1,1,1-Trichloroethane	ND		2.63	2.62		mg/Kg	Q	100	68 - 131	1	23
1,1,2-Trichloroethane	ND		2.63	2.15		mg/Kg	Q	82	77 - 117	4	15
Trichloroethene	0.12 J		2.63	2.31		mg/Kg	Q	83	75 - 121	1	15
Trichlorofluoromethane	ND *		2.63	3.33		mg/Kg	Q	127	18 - 150	11	40
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.63	2.37		mg/Kg	Q	90	57 - 138	5	40
Vinyl chloride	ND		2.63	1.55		mg/Kg	Q	59	41 - 142	3	40
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Surrogate		MSD %Recovery	MSD Qualifier	Limits							
4-Bromofluorobenzene (Sur)		96		62 - 124							
Dibromofluoromethane (Sur)		93		61 - 120							
1,2-Dichloroethane-d4 (Sur)		100		63 - 133							
Toluene-d8 (Sur)		86		68 - 130							

TestAmerica Pittsburgh

QC Sample Results

Client: Geosyntec Consultants, Inc.
 Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Lab Sample ID: MB 180-244130/1-A
 Matrix: Solid
 Analysis Batch: 244465

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 244130

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil. Fac
Acetone	ND		1.0	0.16	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Benzene	ND		0.25	0.098	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Bromoform	ND		0.25	0.13	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Bromomethane	ND		0.25	0.22	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
2-Butanone (MEK)	ND		0.25	0.14	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Carbon disulfide	ND		0.25	0.15	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Carbon tetrachloride	ND		0.25	0.17	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Chlorobenzene	ND		0.25	0.079	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Chlorobromomethane	ND		0.25	0.096	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Chlorodibromomethane	ND		0.25	0.12	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Chloroethane	ND		0.25	0.13	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Chloroform	ND		0.25	0.11	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Chloromethane	ND		0.25	0.19	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
cis-1,2-Dichloroethene	ND		0.25	0.079	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
cis-1,3-Dichloropropene	ND		0.25	0.080	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Cyclohexane	ND		0.25	0.061	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
1,2-Dibromo-3-Chloropropane	ND		0.25	0.15	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
1,2-Dibromoethane	ND		0.25	0.14	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
1,2-Dichlorobenzene	ND		0.25	0.20	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
1,3-Dichlorobenzene	ND		0.25	0.080	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
1,4-Dichlorobenzene	ND		0.25	0.051	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Dichlorobromomethane	ND		0.25	0.12	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Dichlorodifluoromethane	ND		0.25	0.15	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
1,1-Dichloroethane	ND		0.25	0.091	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
1,2-Dichloroethane	ND		0.25	0.073	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
1,1-Dichloroethene	ND		0.25	0.14	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
1,2-Dichloropropane	ND		0.25	0.12	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
1,4-Dioxane	ND		50	1.8	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Ethylbenzene	ND		0.25	0.11	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
2-Hexanone	ND		0.25	0.21	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Isopropylbenzene	ND		0.25	0.12	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Methyl acetate	ND		1.3	0.29	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Methylcyclohexane	ND		0.25	0.11	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Methylene Chloride	ND		0.25	0.12	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
4-Methyl-2-pentanone (MIBK)	ND		0.25	0.093	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Methyl tert-butyl ether	ND		0.25	0.18	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
m-Xylene & p-Xylene	ND		0.25	0.094	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
o-Xylene	ND		0.25	0.12	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Styrene	ND		0.25	0.067	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
1,1,2,2-Tetrachloroethane	ND		0.25	0.15	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Tetrachloroethene	ND		0.25	0.10	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Tetrahydrofuran	ND		0.50	0.37	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Toluene	ND		0.25	0.084	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
trans-1,2-Dichloroethene	ND		0.25	0.13	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
trans-1,3-Dichloropropene	ND		0.25	0.086	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
1,2,3-Trichlorobenzene	ND		0.25	0.10	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
1,2,4-Trichlorobenzene	ND		0.25	0.081	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
1,1,1-Trichloroethane	ND		0.25	0.13	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
1,1,2-Trichloroethane	ND		0.25	0.12	mg/Kg	05/07/18	07:37	05/10/18 12:28	1
Trichloroethene	ND		0.25	0.075	mg/Kg	05/07/18	07:37	05/10/18 12:28	1

TestAmerica Pittsburgh

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-244130/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 244465

Prep Batch: 244130

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.25	0.073	mg/Kg		05/07/18 07:37	05/10/18 12:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.25	0.095	mg/Kg		05/07/18 07:37	05/10/18 12:28	1
Vinyl chloride	ND		0.25	0.18	mg/Kg		05/07/18 07:37	05/10/18 12:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surf)	89		62 - 124	05/07/18 07:37	05/10/18 12:28	1
Dibromofluoromethane (Surf)	97		61 - 120	05/07/18 07:37	05/10/18 12:28	1
1,2-Dichloroethane-d4 (Surf)	110		63 - 133	05/07/18 07:37	05/10/18 12:28	1
Toluene-d8 (Surf)	89		68 - 130	05/07/18 07:37	05/10/18 12:28	1

Lab Sample ID: LCS 180-244130/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 244465

Prep Batch: 244130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acetone	2.00	3.40		mg/Kg		170	16 - 150
Benzene	2.00	1.84		mg/Kg		92	74 - 117
Bromoform	2.00	2.31		mg/Kg		116	47 - 150
Bromomethane	2.00	2.98		mg/Kg		149	13 - 150
2-Butanone (MEK)	2.00	1.98		mg/Kg		99	29 - 150
Carbon disulfide	2.00	2.12		mg/Kg		106	61 - 132
Carbon tetrachloride	2.00	2.45		mg/Kg		123	63 - 134
Chlorobenzene	2.00	1.93		mg/Kg		97	77 - 117
Chlorobromomethane	2.00	1.85		mg/Kg		92	71 - 120
Chlorodibromomethane	2.00	2.34		mg/Kg		117	59 - 141
Chloroethane	2.00	2.27		mg/Kg		114	28 - 150
Chloroform	2.00	2.03		mg/Kg		102	70 - 122
Chloromethane	2.00	1.86		mg/Kg		93	36 - 148
cis-1,2-Dichloroethene	2.00	1.80		mg/Kg		90	72 - 117
cis-1,3-Dichloropropene	2.00	2.18		mg/Kg		109	70 - 132
Cyclohexane	2.00	2.07		mg/Kg		103	65 - 126
1,2-Dibromo-3-Chloropropane	2.00	2.08		mg/Kg		104	50 - 138
1,2-Dibromoethane	2.00	1.91		mg/Kg		96	78 - 118
1,2-Dichlorobenzene	2.00	1.87		mg/Kg		93	75 - 115
1,3-Dichlorobenzene	2.00	1.90		mg/Kg		95	76 - 116
1,4-Dichlorobenzene	2.00	1.90		mg/Kg		95	77 - 117
Dichlorobromomethane	2.00	2.41		mg/Kg		120	65 - 139
Dichlorodifluoromethane	2.00	1.76		mg/Kg		88	10 - 150
1,1-Dichloroethane	2.00	1.94		mg/Kg		97	68 - 122
1,2-Dichloroethane	2.00	2.19		mg/Kg		109	65 - 131
1,1-Dichloroethene	2.00	2.20		mg/Kg		110	62 - 127
1,2-Dichloropropane	2.00	1.84		mg/Kg		92	77 - 119
1,4-Dioxane	40.0	44.4	J	mg/Kg		111	44 - 149
Ethylbenzene	2.00	1.92		mg/Kg		96	76 - 116
2-Hexanone	2.00	1.67		mg/Kg		83	31 - 150
Isopropylbenzene	2.00	2.07		mg/Kg		103	70 - 124
Methyl acetate	4.00	4.42		mg/Kg		110	59 - 143
Methylcyclohexane	2.00	1.87		mg/Kg		94	75 - 118

TestAmerica Pittsburgh

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-244130/2-A		Client Sample ID: Lab Control Sample						
Matrix: Solid	Analysis Batch: 244465	Prep Type: Total/NA						
Analyst	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Roc.	Limits
Methylene Chloride	2.00	1.64		mg/Kg	82	64 - 118		
4-Methyl-2-pentanone (MIBK)	2.00	1.62		mg/Kg	81	56 - 146		
-Methyl tert-butyl ether	2.00	2.01		mg/Kg	101	63 - 129		
m-Xylene & p-Xylene	2.00	1.92		mg/Kg	96	77 - 117		
o-Xylene	2.00	1.98		mg/Kg	99	77 - 117		
Styrene	2.00	1.98		mg/Kg	99	77 - 117		
1,1,2,2-Tetrachloroethane	2.00	2.00		mg/Kg	100	66 - 127		
Tetrachloroethene	2.00	1.82		mg/Kg	91	77 - 118		
Tetrahydrofuran	4.00	5.02	E	mg/Kg	126	64 - 129		
Toluene	2.00	1.84		mg/Kg	92	73 - 122		
trans-1,2-Dichloroethene	2.00	1.84		mg/Kg	92	72 - 117		
trans-1,3-Dichloropropene	2.00	1.98		mg/Kg	99	65 - 133		
1,2,3-Trichlorobenzene	2.00	1.84		mg/Kg	92	50 - 143		
1,2,4-Trichlorobenzene	2.00	1.72		mg/Kg	86	50 - 144		
1,1,1-Trichloroethane	2.00	2.48		mg/Kg	124	68 - 131		
1,1,2-Trichloroethane	2.00	1.84		mg/Kg	92	77 - 117		
Trichloroethene	2.00	1.88		mg/Kg	94	75 - 121		
Trichlorofluoromethane	2.00	4.47		mg/Kg	223	18 - 150		
1,1,2-Trichloro-1,2,2-trifluoroethane	2.00	1.98		mg/Kg	99	57 - 138		
Vinyl chloride	2.00	1.73		mg/Kg	87	41 - 142		
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromo Fluorobenzene (Sur)	91		62 - 124					
Dibromo Fluoromethane (Sur)	91		61 - 120					
1,2-Dichloroethane-d4 (Sur)	100		63 - 133					
Toluene-d8 (Sur)	84		68 - 130					

Lab Sample ID: 180-77433-21 MS

Client Sample ID: NLF-SS-PHASE1-SP220-050418

Matrix: Solid
Analysis Batch: 244465

Prep Type: Total/NA
Prep Batch: 244130

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Roc.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Acetone	ND	F1 *	2.70	3.93		mg/Kg	o	146	16 - 150	
Benzene	ND		2.70	2.41		mg/Kg	o	89	74 - 117	
Bromoform	ND		2.70	2.84		mg/Kg	o	105	47 - 150	
Bromomethane	ND		2.70	3.81		mg/Kg	o	141	13 - 150	
2-Butanone (MEK)	0.32	J	2.70	3.48		mg/Kg	o	117	29 - 150	
Carbon disulfide	ND		2.70	2.64		mg/Kg	o	98	61 - 132	
Carbon tetrachloride	ND		2.70	3.09		mg/Kg	o	114	63 - 134	
Chlorobenzene	ND		2.70	2.56		mg/Kg	o	95	77 - 117	
Chlorobromomethane	ND		2.70	2.35		mg/Kg	o	87	71 - 120	
Chlorodibromomethane	ND		2.70	2.96		mg/Kg	o	109	59 - 141	
Chloroethane	ND		2.70	3.44		mg/Kg	o	127	28 - 150	
Chloroform	ND		2.70	2.64		mg/Kg	o	97	70 - 122	
Chloromethane	ND		2.70	2.16		mg/Kg	o	80	36 - 148	
cis-1,2-Dichloroethene	ND		2.70	2.44		mg/Kg	o	90	72 - 117	
cis-1,3-Dichloropropene	ND		2.70	2.88		mg/Kg	o	107	70 - 132	

TestAmerica Pittsburgh

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-77433-21 MS

Client Sample ID: NLF-SS-PHASE1-SP220-050418

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 244465

Prep Batch: 244130

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	%Rec.
Cyclohexane	ND		2.70	2.80		mg/Kg	o	103	65 - 126	
1,2-Dibromo-3-Chloropropane	ND		2.70	2.40		mg/Kg	o	89	50 - 138	
1,2-Dibromoethane	ND		2.70	2.51		mg/Kg	o	93	78 - 118	
1,2-Dichlorobenzene	ND		2.70	2.39		mg/Kg	o	88	75 - 115	
1,3-Dichlorobenzene	ND		2.70	2.48		mg/Kg	o	92	76 - 116	
1,4-Dichlorobenzene	ND		2.70	2.46		mg/Kg	o	91	77 - 117	
Dichlorobromomethane	ND		2.70	3.05		mg/Kg	o	113	65 - 139	
Dichlorodifluoromethane	ND		2.70	2.19		mg/Kg	o	81	10 - 150	
1,1-Dichloroethane	ND		2.70	2.53		mg/Kg	o	94	68 - 122	
1,2-Dichloroethane	ND		2.70	2.83		mg/Kg	o	105	65 - 131	
1,1-Dichloroethene	ND		2.70	2.57		mg/Kg	o	95	62 - 127	
1,2-Dichloropropane	ND		2.70	2.43		mg/Kg	o	90	77 - 119	
1,4-Dioxane	ND		54.1	51.4 J		mg/Kg	o	95	44 - 149	
Ethylbenzene	ND		2.70	2.53		mg/Kg	o	94	76 - 116	
2-Hexanone	ND		2.70	2.79		mg/Kg	o	103	31 - 150	
Isopropylbenzene	ND		2.70	2.74		mg/Kg	o	101	70 - 124	
Methyl acetate	ND		5.41	5.89		mg/Kg	o	109	59 - 143	
Methylcyclohexane	ND		2.70	2.41		mg/Kg	o	89	75 - 118	
Methylene Chloride	ND		2.70	2.21		mg/Kg	o	82	64 - 118	
4-Methyl-2-pentanone (MIBK)	ND		2.70	3.01		mg/Kg	o	111	56 - 146	
Methyl tert-butyl ether	ND		2.70	2.59		mg/Kg	o	96	63 - 129	
m-Xylene & p-Xylene	ND		2.70	2.56		mg/Kg	o	95	77 - 117	
o-Xylene	ND		2.70	2.59		mg/Kg	o	96	77 - 117	
Styrene	ND		2.70	2.61		mg/Kg	o	97	77 - 117	
1,1,2,2-Tetrachloroethane	ND		2.70	2.56		mg/Kg	o	95	66 - 127	
Tetrachloroethene	ND		2.70	2.47		mg/Kg	o	91	77 - 118	
Tetrahydrofuran	ND		5.41	6.46		mg/Kg	o	119	64 - 129	
Toluene	ND		2.70	2.46		mg/Kg	o	91	73 - 122	
trans-1,2-Dichloroethene	ND		2.70	2.45		mg/Kg	o	91	72 - 117	
trans-1,3-Dichloropropene	ND		2.70	2.65		mg/Kg	o	98	65 - 133	
1,2,3-Trichlorobenzene	ND		2.70	2.61		mg/Kg	o	97	50 - 143	
1,2,4-Trichlorobenzene	ND		2.70	2.23		mg/Kg	o	82	50 - 144	
1,1,1-Trichloroethane	ND		2.70	3.10		mg/Kg	o	115	68 - 131	
1,1,2-Trichloroethane	ND		2.70	2.40		mg/Kg	o	89	77 - 117	
Trichloroethene	ND		2.70	2.52		mg/Kg	o	93	75 - 121	
Trichlorofluoromethane	ND F1 *		2.70	4.29 F1		mg/Kg	o	159	18 - 150	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.70	2.48		mg/Kg	o	92	57 - 138	
Vinyl chloride	ND		2.70	2.17		mg/Kg	o	80	41 - 142	

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Sur)	91		62 - 124
Dibromofluoromethane (Sur)	90		61 - 120
1,2-Dichloroethane-d4 (Sur)	97		63 - 133
Toluene-d8 (Sur)	85		68 - 130

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TestAmerica Pittsburgh

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-77433-21 MSD				Client Sample ID: NLF-SS-PHASE1-SP220-050418											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD			Unit	D	%Rec	Limits	RPD	Prep Type: Total/NA	Prep Batch: 244130	%Rec.	RPD
				Result	Qualifier	Unit									
Acetone	ND	F1 *	2.70	5.07	F1	mg/Kg	o	188	16 - 150	25	40				
Benzene	ND		2.70	2.39		mg/Kg	o	89	74 - 117	1	15				
Bromoform	ND		2.70	3.04		mg/Kg	o	113	47 - 150	7	16				
Bromomethane	ND		2.70	4.01		mg/Kg	o	148	13 - 150	5	40				
2-Butanone (MEK)	0.32	J	2.70	3.56		mg/Kg	o	120	29 - 150	2	40				
Carbon disulfide	ND		2.70	2.65		mg/Kg	o	98	61 - 132	0	28				
Carbon tetrachloride	ND		2.70	3.10		mg/Kg	o	115	63 - 134	0	21				
Chlorobenzene	ND		2.70	2.60		mg/Kg	o	96	77 - 117	1	15				
Chlorobromomethane	ND		2.70	2.34		mg/Kg	o	87	71 - 120	0	15				
Chlorodibromomethane	ND		2.70	3.11		mg/Kg	o	115	59 - 141	5	17				
Chloroethane	ND		2.70	3.18		mg/Kg	o	118	28 - 150	8	40				
Chloroform	ND		2.70	2.69		mg/Kg	o	99	70 - 122	2	15				
Chloromethane	ND		2.70	2.18		mg/Kg	o	81	36 - 148	1	40				
cis-1,2-Dichloroethene	ND		2.70	2.42		mg/Kg	o	90	72 - 117	1	15				
cis-1,3-Dichloropropene	ND		2.70	2.87		mg/Kg	o	106	70 - 132	0	22				
Cyclohexane	ND		2.70	2.78		mg/Kg	o	103	65 - 126	1	29				
1,2-Dibromo-3-Chloropropane	ND		2.70	2.53		mg/Kg	o	93	50 - 138	5	22				
1,2-Dibromoethane	ND		2.70	2.47		mg/Kg	o	91	78 - 118	2	15				
1,2-Dichlorobenzene	ND		2.70	2.42		mg/Kg	o	89	75 - 115	1	15				
1,3-Dichlorobenzene	ND		2.70	2.51		mg/Kg	o	93	76 - 116	1	15				
1,4-Dichlorobenzene	ND		2.70	2.49		mg/Kg	o	92	77 - 117	1	15				
Dichlorobromomethane	ND		2.70	3.19		mg/Kg	o	118	65 - 139	4	15				
Dichlorodifluoromethane	ND		2.70	2.31		mg/Kg	o	86	10 - 150	5	40				
1,1-Dichloroethane	ND		2.70	2.54		mg/Kg	o	94	68 - 122	0	15				
1,2-Dichloroethane	ND		2.70	2.95		mg/Kg	o	109	65 - 131	4	15				
1,1-Dichloroethene	ND		2.70	2.50		mg/Kg	o	92	62 - 127	3	19				
1,2-Dichloropropane	ND		2.70	2.40		mg/Kg	o	89	77 - 119	1	15				
1,4-Dioxane	ND		54.1	51.6	J	mg/Kg	o	95	44 - 149	0	40				
Ethylbenzene	ND		2.70	2.57		mg/Kg	o	95	76 - 116	1	15				
2-Hexanone	ND		2.70	2.76		mg/Kg	o	102	31 - 150	1	37				
Isopropylbenzene	ND		2.70	2.81		mg/Kg	o	104	70 - 124	3	18				
Methyl acetate	ND		5.41	6.00		mg/Kg	o	111	59 - 143	2	27				
Methylcyclohexane	ND		2.70	2.42		mg/Kg	o	90	75 - 118	0	23				
Methylene Chloride	ND		2.70	2.31		mg/Kg	o	86	64 - 118	4	26				
4-Methyl-2-pentanone (MIBK)	ND		2.70	2.65		mg/Kg	o	98	56 - 146	13	22				
Methyl tert-butyl ether	ND		2.70	2.69		mg/Kg	o	99	63 - 129	4	30				
m-Xylene & p-Xylene	ND		2.70	2.60		mg/Kg	o	96	77 - 117	1	15				
o-Xylene	ND		2.70	2.62		mg/Kg	o	97	77 - 117	1	15				
Styrene	ND		2.70	2.65		mg/Kg	o	98	77 - 117	1	15				
1,1,2,2-Tetrachloroethane	ND		2.70	2.79		mg/Kg	o	103	66 - 127	9	24				
Tetrachloroethene	ND		2.70	2.48		mg/Kg	o	92	77 - 118	0	18				
Tetrahydrofuran	ND		5.41	6.60		mg/Kg	o	122	64 - 129	2	26				
Toluene	ND		2.70	2.49		mg/Kg	o	92	73 - 122	1	15				
trans-1,2-Dichloroethene	ND		2.70	2.37		mg/Kg	o	88	72 - 117	3	16				
trans-1,3-Dichloropropene	ND		2.70	2.61		mg/Kg	o	97	65 - 133	1	16				
1,2,3-Trichlorobenzene	ND		2.70	2.17		mg/Kg	o	80	50 - 143	18	24				
1,2,4-Trichlorobenzene	ND		2.70	2.04		mg/Kg	o	76	50 - 144	9	22				
1,1,1-Trichloroethane	ND		2.70	3.19		mg/Kg	o	118	68 - 131	3	23				

TestAmerica Pittsburgh

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-77433-21 MSD

Client Sample ID: NLF-SS-PHASE1-SP220-050418

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 244465

Prep Batch: 244130

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	Limits	RPD	RPD Limit
1,1,2-Trichloroethane	ND		2.70	2.46		mg/Kg	81	77 - 117	2	15	
Trichloroethene	ND		2.70	2.50		mg/Kg	93	75 - 121	1	15	
Trichlorofluoromethane	ND	F1 *	2.70	5.94	F1	mg/Kg	220	18 - 150	32	40	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.70	3.19		mg/Kg	118	57 - 138	25	40	
Vinyl chloride	ND		2.70	2.23		mg/Kg	82	41 - 142	3	40	
Surrogate	%Recovery	Qualifor		MSD	MSD						
4-Bromofluorobenzene (Sur)	92			62 - 124							
Dibromofluoromethane (Sur)	90			61 - 120							
1,2-Dichloroethane-d4 (Sur)	103			63 - 133							
Toluene-d8 (Sur)	85			68 - 130							

Lab Sample ID: LCS 180-244132/3

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 244132

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits		
Benzene		0.0400	0.0404		mg/L	101	78 - 118			
2-Butanone (MEK)		0.0400	0.0335		mg/L	84	30 - 150			
Carbon tetrachloride		0.0400	0.0395		mg/L	99	60 - 137			
Chlorobenzene		0.0400	0.0423		mg/L	106	78 - 118			
Chloroform		0.0400	0.0349		mg/L	87	68 - 124			
1,2-Dichloroethane		0.0400	0.0384		mg/L	96	67 - 123			
1,1-Dichloroethene		0.0400	0.0440		mg/L	110	59 - 128			
Tetrachloroethene		0.0400	0.0427		mg/L	107	78 - 118			
Trichloroethene		0.0400	0.0448		mg/L	112	76 - 120			
Vinyl chloride		0.0400	0.0413		mg/L	103	53 - 148			
Surrogate	%Recovery	Qualifor								
4-Bromofluorobenzene (Sur)	104		65 - 116							
Dibromofluoromethane (Sur)	87		72 - 120							
1,2-Dichloroethane-d4 (Sur)	100		64 - 137							
Toluene-d8 (Sur)	107		82 - 132							

Lab Sample ID: MB 180-244345/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 244345

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/L			05/09/18 08:14	1
Benzene	ND		0.0050	0.0020	mg/L			05/09/18 08:14	1
Bromoform	ND		0.0050	0.0026	mg/L			05/09/18 08:14	1
Bromomethane	ND		0.0050	0.0045	mg/L			05/09/18 08:14	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/L			05/09/18 08:14	1
Carbon disulfide	ND		0.0050	0.0030	mg/L			05/09/18 08:14	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/L			05/09/18 08:14	1
Chlorobenzene	ND		0.0050	0.0016	mg/L			05/09/18 08:14	1

TestAmerica Pittsburgh

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-244345/7

Matrix: Water

Analysis Batch: 244345

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobromomethane	ND		0.0050	0.0019	mg/L			05/09/18 08:14	1
Chlorodibromomethane	ND		0.0050	0.0024	mg/L			05/09/18 08:14	1
Chloroethane	ND		0.0050	0.0026	mg/L			05/09/18 08:14	1
Chloroform	ND		0.0050	0.0021	mg/L			05/09/18 08:14	1
Chloromethane	ND		0.0050	0.0039	mg/L			05/09/18 08:14	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/L			05/09/18 08:14	1
cis-1,3-Dichloropropene	ND		0.0050	0.0016	mg/L			05/09/18 08:14	1
Cyclohexane	ND		0.0050	0.0012	mg/L			05/09/18 08:14	1
Cyclohexanone	ND		0.10	0.058	mg/L			05/09/18 08:14	1
1,2-Dibromo-3-Chloropropane	ND		0.0050	0.0031	mg/L			05/09/18 08:14	1
1,2-Dibromoethane	ND		0.0050	0.0027	mg/L			05/09/18 08:14	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/L			05/09/18 08:14	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/L			05/09/18 08:14	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/L			05/09/18 08:14	1
Dichlorobromomethane	ND		0.0050	0.0024	mg/L			05/09/18 08:14	1
Dichlorodifluoromethane	ND		0.0050	0.0029	mg/L			05/09/18 08:14	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/L			05/09/18 08:14	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/L			05/09/18 08:14	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/L			05/09/18 08:14	1
1,2-Dichloropropane	ND		0.0050	0.0025	mg/L			05/09/18 08:14	1
1,4-Dioxane	ND		1.0	0.037	mg/L			05/09/18 08:14	1
Ethylbenzene	ND		0.0050	0.0022	mg/L			05/09/18 08:14	1
2-Hexanone	ND		0.0050	0.0042	mg/L			05/09/18 08:14	1
Isopropylbenzene	ND		0.0050	0.0023	mg/L			05/09/18 08:14	1
Methyl acetate	ND		0.025	0.0059	mg/L			05/09/18 08:14	1
Methylcyclohexane	ND		0.0050	0.0021	mg/L			05/09/18 08:14	1
Methylene Chloride	ND		0.0050	0.0024	mg/L			05/09/18 08:14	1
4-Methyl-2-pentanone (MIBK)	ND		0.0050	0.0019	mg/L			05/09/18 08:14	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/L			05/09/18 08:14	1
m-Xylene & p-Xylene	ND		0.0050	0.0019	mg/L			05/09/18 08:14	1
o-Xylene	ND		0.0050	0.0024	mg/L			05/09/18 08:14	1
Styrene	ND		0.0050	0.0013	mg/L			05/09/18 08:14	1
1,1,2,2-Tetrachloroethane	ND		0.0050	0.0030	mg/L			05/09/18 08:14	1
Tetrachloroethene	ND		0.0050	0.0020	mg/L			05/09/18 08:14	1
Tetrahydrofuran	ND		0.010	0.0075	mg/L			05/09/18 08:14	1
Toluene	ND		0.0050	0.0017	mg/L			05/09/18 08:14	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/L			05/09/18 08:14	1
trans-1,3-Dichloropropene	ND		0.0050	0.0017	mg/L			05/09/18 08:14	1
1,2,3-Trichlorobenzene	ND		0.0050	0.0021	mg/L			05/09/18 08:14	1
1,2,4-Trichlorobenzene	ND		0.0050	0.0016	mg/L			05/09/18 08:14	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/L			05/09/18 08:14	1
1,1,2-Trichloroethane	ND		0.0050	0.0024	mg/L			05/09/18 08:14	1
Trichloroethene	ND		0.0050	0.0015	mg/L			05/09/18 08:14	1
Trichlorodifluoromethane	ND		0.0050	0.0015	mg/L			05/09/18 08:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0050	0.0019	mg/L			05/09/18 08:14	1
Vinyl chloride	ND		0.0050	0.0037	mg/L			05/09/18 08:14	1

TestAmerica Pittsburgh

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-244345/7

Matrix: Water

Analysis Batch: 244345

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromo fluoro benzene (Surr)	98				65 - 116			
Dibromo fluoro methane (Surr)	103				72 - 120			
1,2-Dichloroethane-d4 (Surr)	110				64 - 137			
Toluene-d8 (Surr)	86				82 - 132			

Lab Sample ID: LCS 180-244345/1005

Matrix: Water

Analysis Batch: 244345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limts
Acetone	0.0200	0.0206		mg/L	103	36 - 150	
Benzene	0.0100	0.0102		mg/L	102	78 - 118	
Bromoform	0.0100	0.00848		mg/L	85	56 - 150	
Bromomethane	0.0100	0.0130		mg/L	130	34 - 150	
2-Butanone (MEK)	0.0200	0.0209		mg/L	105	30 - 150	
Carbon disulfide	0.0100	0.0111		mg/L	111	66 - 128	
Carbon tetrachloride	0.0100	0.00987		mg/L	99	60 - 137	
Chlorobenzene	0.0100	0.00981		mg/L	98	78 - 118	
Chlorobromomethane	0.0100	0.00973		mg/L	97	72 - 121	
Chlorodibromomethane	0.0100	0.0103		mg/L	103	58 - 140	
Chloroethane	0.0100	0.0150		mg/L	150	37 - 150	
Chloroform	0.0100	0.0102		mg/L	102	68 - 124	
Chloromethane	0.0100	0.00788		mg/L	79	46 - 150	
cis-1,2-Dichloroethene	0.0100	0.00964		mg/L	96	71 - 120	
cis-1,3-Dichloropropene	0.0100	0.00951		mg/L	95	70 - 131	
Cyclohexane	0.0100	0.00843		mg/L	84	70 - 133	
1,2-Dibromo-3-Chloropropane	0.0100	0.00716		mg/L	72	54 - 129	
1,2-Dibromoethane	0.0100	0.00962		mg/L	96	78 - 118	
1,2-Dichlorobenzene	0.0100	0.00842		mg/L	84	78 - 118	
1,3-Dichlorobenzene	0.0100	0.00856		mg/L	86	78 - 118	
1,4-Dichlorobenzene	0.0100	0.00884		mg/L	88	78 - 118	
Dichlorobromomethane	0.0100	0.00947		mg/L	95	66 - 136	
Dichlorodifluoromethane	0.0100	0.0114		mg/L	114	16 - 150	
1,1-Dichloroethane	0.0100	0.0103		mg/L	103	67 - 129	
1,2-Dichloroethane	0.0100	0.00996		mg/L	100	67 - 123	
1,1-Dichloroethene	0.0100	0.0103		mg/L	103	59 - 128	
1,2-Dichloropropane	0.0100	0.0101		mg/L	101	80 - 121	
1,4-Dioxane	0.200	0.109	J	mg/L	55	51 - 138	
Ethylbenzene	0.0100	0.00883		mg/L	88	78 - 118	
2-Hexanone	0.0200	0.0204		mg/L	102	36 - 150	
Isopropylbenzene	0.0100	0.00759		mg/L	76	76 - 123	
Methyl acetate	0.0200	0.0163	J	mg/L	81	64 - 140	
Methylcyclohexane	0.0100	0.00746		mg/L	75	75 - 124	
Methylene Chloride	0.0100	0.0105		mg/L	105	68 - 120	
4-Methyl-2-pentanone (MIBK)	0.0200	0.0206		mg/L	103	62 - 145	
Methyl tert-butyl ether	0.0100	0.00894		mg/L	89	73 - 121	
m-Xylene & p-Xylene	0.0100	0.00889		mg/L	89	78 - 118	
o-Xylene	0.0100	0.00815		mg/L	82	78 - 118	

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TestAmerica Pittsburgh

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-244345/1005
Matrix: Water
Analysis Batch: 244345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Styrene	0.0100	0.00850		mg/L		85	79 - 119	
1,1,2,2-Tetrachloroethane	0.0100	0.00859		mg/L		86	71 - 125	
Tetrachloroethylene	0.0100	0.00974		mg/L		97	78 - 118	
Tetrahydrofuran	0.0200	0.0125	*	mg/L		63	69 - 128	
Toluene	0.0100	0.0112		mg/L		112	79 - 121	
trans-1,2-Dichloroethene	0.0100	0.0106		mg/L		106	71 - 123	
trans-1,3-Dichloropropene	0.0100	0.0101		mg/L		101	62 - 133	
1,2,3-Trichlorobenzene	0.0100	0.00561	*	mg/L		56	69 - 131	
1,2,4-Trichlorobenzene	0.0100	0.00511	*	mg/L		51	65 - 135	
1,1,1-Trichloroethane	0.0100	0.0107		mg/L		107	69 - 135	
1,1,2-Trichloroethane	0.0100	0.0112		mg/L		112	78 - 118	
Trichloroethylene	0.0100	0.00841		mg/L		84	76 - 120	
Trichlorofluoromethane	0.0100	0.0123		mg/L		123	25 - 150	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0100	0.0105		mg/L		105	61 - 137	
Vinyl chloride	0.0100	0.0107		mg/L		107	53 - 148	
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Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Sur)	93		65 - 116					
Dibromofluoromethane (Sur)	96		72 - 120					
1,2-Dichloroethane-d4 (Sur)	105		64 - 137					
Toluene-d8 (Sur)	109		82 - 132					

Lab Sample ID: LCS 180-244372/3
Matrix: Solid
Analysis Batch: 244372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Benzene	0.0400	0.0396		mg/L		99	78 - 118	
2-Butanone (MEK)	0.0400	0.0287		mg/L		72	30 - 150	
Carbon tetrachloride	0.0400	0.0392		mg/L		98	60 - 137	
Chlorobenzene	0.0400	0.0421		mg/L		105	78 - 118	
Chloroform	0.0400	0.0338		mg/L		84	68 - 124	
1,2-Dichloroethane	0.0400	0.0350		mg/L		88	67 - 123	
1,1-Dichloroethene	0.0400	0.0440		mg/L		110	59 - 128	
Tetrachloroethylene	0.0400	0.0452		mg/L		113	78 - 118	
Trichloroethylene	0.0400	0.0452		mg/L		113	76 - 120	
Vinyl chloride	0.0400	0.0435		mg/L		109	53 - 148	
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Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Sur)	100		65 - 116					
Dibromofluoromethane (Sur)	80		72 - 120					
1,2-Dichloroethane-d4 (Sur)	86		64 - 137					
Toluene-d8 (Sur)	107		82 - 132					

TestAmerica Pittsburgh

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 180-244100/1-A

Matrix: Solid

Analysis Batch: 244132

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.050	0.020	mg/L			05/07/18 12:44	1
2-Butanone (MEK)	ND		0.050	0.029	mg/L			05/07/18 12:44	1
Carbon tetrachloride	ND		0.050	0.033	mg/L			05/07/18 12:44	1
Chlorobenzene	ND		0.050	0.016	mg/L			05/07/18 12:44	1
Chloroform	ND		0.050	0.021	mg/L			05/07/18 12:44	1
1,2-Dichloroethane	ND		0.050	0.015	mg/L			05/07/18 12:44	1
1,1-Dichloroethene	ND		0.050	0.029	mg/L			05/07/18 12:44	1
Tetrachloroethene	ND		0.050	0.020	mg/L			05/07/18 12:44	1
Trichloroethene	ND		0.050	0.015	mg/L			05/07/18 12:44	1
Vinyl chloride	ND		0.050	0.037	mg/L			05/07/18 12:44	1

Surrogate	LB %Recovery	LB Qualifier	LB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Sur)	84		65 - 116		05/07/18 12:44	1
Dibromofluoromethane (Sur)	91		72 - 120		05/07/18 12:44	1
1,2-Dichloroethane-d4 (Sur)	101		64 - 137		05/07/18 12:44	1
Toluene-d8 (Sur)	98		82 - 132		05/07/18 12:44	1

Lab Sample ID: 180-77433-21 MS

Matrix: Solid

Analysis Batch: 244132

Client Sample ID: NLF-SS-PHASE1-SP220-050418
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.
Benzene	ND		1.60	1.58		mg/L		99	78 - 118
2-Butanone (MEK)	ND		1.60	0.986		mg/L		62	30 - 150
Carbon tetrachloride	ND		1.60	1.48		mg/L		92	60 - 137
Chlorobenzene	ND		1.60	1.67		mg/L		104	78 - 118
Chloroform	ND		1.60	1.34		mg/L		84	68 - 124
1,2-Dichloroethane	ND		1.60	1.50		mg/L		94	67 - 123
1,1-Dichloroethene	ND		1.60	1.71		mg/L		107	59 - 128
Tetrachloroethene	ND F1		1.60	1.74		mg/L		109	78 - 118
Trichloroethene	ND F1		1.60	1.77		mg/L		110	76 - 120
Vinyl chloride	ND		1.60	1.66		mg/L		104	53 - 148

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Sur)	113		65 - 116
Dibromofluoromethane (Sur)	91		72 - 120
1,2-Dichloroethane-d4 (Sur)	103		64 - 137
Toluene-d8 (Sur)	115		82 - 132

Lab Sample ID: 180-77433-21 MSD

Matrix: Solid

Analysis Batch: 244132

Client Sample ID: NLF-SS-PHASE1-SP220-050418
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD
Benzene	ND		1.60	1.54		mg/L		96	78 - 118	3 15
2-Butanone (MEK)	ND		1.60	1.17		mg/L		73	30 - 150	17 35
Carbon tetrachloride	ND		1.60	1.66		mg/L		104	60 - 137	12 21

TestAmerica Pittsburgh

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-77433-21 MSD

Matrix: Solid

Analysis Batch: 244132

Client Sample ID: NLF-SS-PHASE1-SP220-050418

Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec %Rec	Limits	RPD RPD	Limit Limit
Chlorobenzene	ND		1.60	1.87		mg/L		117	78 - 118	12	15
Chloroform	ND		1.60	1.56		mg/L		98	68 - 124	15	15
1,2-Dichloroethane	ND		1.60	1.72		mg/L		108	67 - 123	14	15
1,1-Dichloroethene	ND		1.60	1.97		mg/L		123	59 - 128	14	17
Tetrachloroethene	ND F1		1.60	1.93 F1		mg/L		120	78 - 118	10	20
Trichloroethene	ND F1		1.60	2.02 F1		mg/L		126	76 - 120	13	15
Vinyl chloride	ND		1.60	1.84		mg/L		115	53 - 148	10	35
Surrogate	MSD %Recovery	MSD Qualifier		MSD	MSD						
4-Bromofluorobenzene (Surr)	98			65 - 116							
Dibromofluoromethane (Surr)	84			72 - 120							
1,2-Dichloroethane-d4 (Surr)	92			64 - 137							
Toluene-d8 (Surr)	102			82 - 132							

Lab Sample ID: LB 180-244314/1-A

Matrix: Solid

Analysis Batch: 244372

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.050	0.020	mg/L			05/09/18 13:16	1
2-Butanone (MEK)	ND		0.050	0.029	mg/L			05/09/18 13:16	1
Carbon tetrachloride	ND		0.050	0.033	mg/L			05/09/18 13:16	1
Chlorobenzene	ND		0.050	0.016	mg/L			05/09/18 13:16	1
Chloroform	ND		0.050	0.021	mg/L			05/09/18 13:16	1
1,2-Dichloroethane	ND		0.050	0.015	mg/L			05/09/18 13:16	1
1,1-Dichloroethene	ND		0.050	0.029	mg/L			05/09/18 13:16	1
Tetrachloroethene	ND		0.050	0.020	mg/L			05/09/18 13:16	1
Trichloroethene	ND		0.050	0.015	mg/L			05/09/18 13:16	1
Vinyl chloride	ND		0.050	0.037	mg/L			05/09/18 13:16	1
Surrogate	LB %Recovery	LB Qualifier		LB			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84			65 - 116				05/09/18 13:16	1
Dibromofluoromethane (Surr)	84			72 - 120				05/09/18 13:16	1
1,2-Dichloroethane-d4 (Surr)	99			64 - 137				05/09/18 13:16	1
Toluene-d8 (Surr)	94			82 - 132				05/09/18 13:16	1

Method: 2540G - SM 2540G

Lab Sample ID: 180-77433-5 DU

Matrix: Solid

Analysis Batch: 244425

Client Sample ID: NLF-SS-PHASE1-SP204-050418
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	15.3		16.5		%		8	20
Percent Solids	84.7		83.5		%		1	20

TestAmerica Pittsburgh

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

Method: 2540G - SM 2540G (Continued)

Lab Sample ID: 180-77433-24 DU

Client Sample ID: NLF-SS-PHASE1-SP223-050418

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 244436

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Percent Moisture	7.5		8.6		%	-	-	13	20
Percent Solids	92.5		91.4		%	-	-	1	20

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

GC/MS VOA

Leach Batch: 244100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-77433-2	NLF-SS-PHASE1-SP201-050418	TCLP	Solid	EPA 1311	3
180-77433-3	NLF-SS-PHASE1-SP202-050418	TCLP	Solid	EPA 1311	
180-77433-4	NLF-SS-PHASE1-SP203-050418	TCLP	Solid	EPA 1311	
180-77433-5	NLF-SS-PHASE1-SP204-050418	TCLP	Solid	EPA 1311	
180-77433-6	NLF-SS-PHASE1-SP205-050418	TCLP	Solid	EPA 1311	
180-77433-7	NLF-SS-PHASE1-SP206-050418	TCLP	Solid	EPA 1311	
180-77433-8	NLF-SS-PHASE1-SP207-050418	TCLP	Solid	EPA 1311	
180-77433-9	NLF-SS-PHASE1-SP208-050418	TCLP	Solid	EPA 1311	
180-77433-10	NLF-SS-PHASE1-SP209-050418	TCLP	Solid	EPA 1311	
180-77433-11	NLF-SS-PHASE1-SP210-050418	TCLP	Solid	EPA 1311	
180-77433-12	NLF-SS-PHASE1-SP211-050418	TCLP	Solid	EPA 1311	
180-77433-21	NLF-SS-PHASE1-SP220-050418	TCLP	Solid	EPA 1311	
LB 180-244100/1-A	Method Blank	TCLP	Solid	EPA 1311	
180-77433-21 MS	NLF-SS-PHASE1-SP220-050418	TCLP	Solid	EPA 1311	244100
180-77433-21 MSD	NLF-SS-PHASE1-SP220-050418	TCLP	Solid	EPA 1311	

Prep Batch: 244128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-77433-2	NLF-SS-PHASE1-SP201-050418	Total/NA	Solid	5030C	3
180-77433-3	NLF-SS-PHASE1-SP202-050418	Total/NA	Solid	5030C	
180-77433-4	NLF-SS-PHASE1-SP203-050418	Total/NA	Solid	5030C	
180-77433-5	NLF-SS-PHASE1-SP204-050418	Total/NA	Solid	5030C	
180-77433-6	NLF-SS-PHASE1-SP205-050418	Total/NA	Solid	5030C	
180-77433-7	NLF-SS-PHASE1-SP206-050418	Total/NA	Solid	5030C	
180-77433-8	NLF-SS-PHASE1-SP207-050418	Total/NA	Solid	5030C	
180-77433-9	NLF-SS-PHASE1-SP208-050418	Total/NA	Solid	5030C	
180-77433-10	NLF-SS-PHASE1-SP209-050418	Total/NA	Solid	5030C	
180-77433-11	NLF-SS-PHASE1-SP210-050418	Total/NA	Solid	5030C	
180-77433-12	NLF-SS-PHASE1-SP211-050418	Total/NA	Solid	5030C	
180-77433-13	NLF-SS-PHASE1-SP212-050418	Total/NA	Solid	5030C	
180-77433-14	NLF-SS-PHASE1-SP213-050418	Total/NA	Solid	5030C	
180-77433-15	NLF-SS-PHASE1-SP214-050418	Total/NA	Solid	5030C	
180-77433-16	NLF-SS-PHASE1-SP215-050418	Total/NA	Solid	5030C	
MB 180-244128/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 180-244128/2-A	Lab Control Sample	Total/NA	Solid	5030C	
180-77433-2 MS	NLF-SS-PHASE1-SP201-050418	Total/NA	Solid	5030C	
180-77433-2 MSD	NLF-SS-PHASE1-SP201-050418	Total/NA	Solid	5030C	

Prep Batch: 244130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-77433-17	NLF-SS-PHASE1-SP216-050418	Total/NA	Solid	5030C	
180-77433-18	NLF-SS-PHASE1-SP217-050418	Total/NA	Solid	5030C	
180-77433-19	NLF-SS-PHASE1-SP218-050418	Total/NA	Solid	5030C	
180-77433-20	NLF-SS-PHASE1-SP219-050418	Total/NA	Solid	5030C	
180-77433-21	NLF-SS-PHASE1-SP220-050418	Total/NA	Solid	5030C	
180-77433-22	NLF-SS-PHASE1-SP221-050418	Total/NA	Solid	5030C	
180-77433-23	NLF-SS-PHASE1-SP222-050418	Total/NA	Solid	5030C	
180-77433-24	NLF-SS-PHASE1-SP223-050418	Total/NA	Solid	5030C	
180-77433-25	NLF-SS-PHASE1-SP224-050418	Total/NA	Solid	5030C	
180-77433-26	NLF-SS-PHASE1-SP225-050418	Total/NA	Solid	5030C	
MB 180-244130/1-A	Method Blank	Total/NA	Solid	5030C	

TestAmerica Pittsburgh

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

GC/MS VOA (Continued)

Prep Batch: 244130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-244130/2-A	Lab Control Sample	Total/NA	Solid	5030C	
180-77433-21 MS	NLF-SS-PHASE1-SP220-050418	Total/NA	Solid	5030C	
180-77433-21 MSD	NLF-SS-PHASE1-SP220-050418	Total/NA	Solid	5030C	

Analysis Batch: 244132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-77433-2	NLF-SS-PHASE1-SP201-050418	TCLP	Solid	EPA 8260C	244100
180-77433-3	NLF-SS-PHASE1-SP202-050418	TCLP	Solid	EPA 8260C	244100
180-77433-4	NLF-SS-PHASE1-SP203-050418	TCLP	Solid	EPA 8260C	244100
180-77433-5	NLF-SS-PHASE1-SP204-050418	TCLP	Solid	EPA 8260C	244100
180-77433-6	NLF-SS-PHASE1-SP205-050418	TCLP	Solid	EPA 8260C	244100
180-77433-7	NLF-SS-PHASE1-SP206-050418	TCLP	Solid	EPA 8260C	244100
180-77433-8	NLF-SS-PHASE1-SP207-050418	TCLP	Solid	EPA 8260C	244100
180-77433-9	NLF-SS-PHASE1-SP208-050418	TCLP	Solid	EPA 8260C	244100
180-77433-10	NLF-SS-PHASE1-SP209-050418	TCLP	Solid	EPA 8260C	244100
180-77433-11	NLF-SS-PHASE1-SP210-050418	TCLP	Solid	EPA 8260C	244100
180-77433-12	NLF-SS-PHASE1-SP211-050418	TCLP	Solid	EPA 8260C	244100
180-77433-21	NLF-SS-PHASE1-SP220-050418	TCLP	Solid	EPA 8260C	244100
LB 180-244100/1-A	Method Blank	TCLP	Solid	EPA 8260C	244100
LCS 180-244132/3	Lab Control Sample	Total/NA	Solid	EPA 8260C	
180-77433-21 MS	NLF-SS-PHASE1-SP220-050418	TCLP	Solid	EPA 8260C	244100
180-77433-21 MSD	NLF-SS-PHASE1-SP220-050418	TCLP	Solid	EPA 8260C	244100

Analysis Batch: 244222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-77433-2	NLF-SS-PHASE1-SP201-050418	Total/NA	Solid	EPA 8260C	244128
180-77433-3	NLF-SS-PHASE1-SP202-050418	Total/NA	Solid	EPA 8260C	244128
180-77433-4	NLF-SS-PHASE1-SP203-050418	Total/NA	Solid	EPA 8260C	244128
180-77433-6	NLF-SS-PHASE1-SP205-050418	Total/NA	Solid	EPA 8260C	244128
MB 180-244128/1-A	Method Blank	Total/NA	Solid	EPA 8260C	244128
LCS 180-244128/2-A	Lab Control Sample	Total/NA	Solid	EPA 8260C	244128
180-77433-2 MS	NLF-SS-PHASE1-SP201-050418	Total/NA	Solid	EPA 8260C	244128
180-77433-2 MSD	NLF-SS-PHASE1-SP201-050418	Total/NA	Solid	EPA 8260C	244128

Leach Batch: 244314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-77433-13	NLF-SS-PHASE1-SP212-050418	TCLP	Solid	EPA 1311	
180-77433-14	NLF-SS-PHASE1-SP213-050418	TCLP	Solid	EPA 1311	
180-77433-15	NLF-SS-PHASE1-SP214-050418	TCLP	Solid	EPA 1311	
180-77433-16	NLF-SS-PHASE1-SP215-050418	TCLP	Solid	EPA 1311	
180-77433-17	NLF-SS-PHASE1-SP216-050418	TCLP	Solid	EPA 1311	
180-77433-18	NLF-SS-PHASE1-SP217-050418	TCLP	Solid	EPA 1311	
180-77433-19	NLF-SS-PHASE1-SP218-050418	TCLP	Solid	EPA 1311	
180-77433-20	NLF-SS-PHASE1-SP219-050418	TCLP	Solid	EPA 1311	
180-77433-22	NLF-SS-PHASE1-SP221-050418	TCLP	Solid	EPA 1311	
180-77433-23	NLF-SS-PHASE1-SP222-050418	TCLP	Solid	EPA 1311	
180-77433-24	NLF-SS-PHASE1-SP223-050418	TCLP	Solid	EPA 1311	
180-77433-25	NLF-SS-PHASE1-SP224-050418	TCLP	Solid	EPA 1311	
180-77433-26	NLF-SS-PHASE1-SP225-050418	TCLP	Solid	EPA 1311	
LB 180-244314/1-A	Method Blank	TCLP	Solid	EPA 1311	

TestAmerica Pittsburgh

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

GC/MS VOA (Continued)

Analysis Batch: 244343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-77433-5	NLF-SS-PHASE1-SP204-050418	Total/NA	Solid	EPA 8260C	244128
180-77433-7	NLF-SS-PHASE1-SP206-050418	Total/NA	Solid	EPA 8260C	244128
180-77433-8	NLF-SS-PHASE1-SP207-050418	Total/NA	Solid	EPA 8260C	244128
180-77433-9	NLF-SS-PHASE1-SP208-050418	Total/NA	Solid	EPA 8260C	244128
180-77433-10	NLF-SS-PHASE1-SP209-050418	Total/NA	Solid	EPA 8260C	244128
180-77433-11	NLF-SS-PHASE1-SP210-050418	Total/NA	Solid	EPA 8260C	244128
180-77433-12	NLF-SS-PHASE1-SP211-050418	Total/NA	Solid	EPA 8260C	244128
180-77433-13	NLF-SS-PHASE1-SP212-050418	Total/NA	Solid	EPA 8260C	244128
180-77433-14	NLF-SS-PHASE1-SP213-050418	Total/NA	Solid	EPA 8260C	244128
180-77433-15	NLF-SS-PHASE1-SP214-050418	Total/NA	Solid	EPA 8260C	244128
180-77433-16	NLF-SS-PHASE1-SP215-050418	Total/NA	Solid	EPA 8260C	244128
MB 180-244128/1-A	Method Blank	Total/NA	Solid	EPA 8260C	244128
LCS 180-244128/2-A	Lab Control Sample	Total/NA	Solid	EPA 8260C	244128

Analysis Batch: 244345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-77433-1	TB050418	Total/NA	Water	EPA 8260C	
MB 180-244345/7	Method Blank	Total/NA	Water	EPA 8260C	
LCS 180-244345/1005	Lab Control Sample	Total/NA	Water	EPA 8260C	

Analysis Batch: 244372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-77433-13	NLF-SS-PHASE1-SP212-050418	TCLP	Solid	EPA 8260C	244314
180-77433-14	NLF-SS-PHASE1-SP213-050418	TCLP	Solid	EPA 8260C	244314
180-77433-15	NLF-SS-PHASE1-SP214-050418	TCLP	Solid	EPA 8260C	244314
180-77433-16	NLF-SS-PHASE1-SP215-050418	TCLP	Solid	EPA 8260C	244314
180-77433-17	NLF-SS-PHASE1-SP216-050418	TCLP	Solid	EPA 8260C	244314
180-77433-18	NLF-SS-PHASE1-SP217-050418	TCLP	Solid	EPA 8260C	244314
180-77433-19	NLF-SS-PHASE1-SP218-050418	TCLP	Solid	EPA 8260C	244314
180-77433-20	NLF-SS-PHASE1-SP219-050418	TCLP	Solid	EPA 8260C	244314
180-77433-22	NLF-SS-PHASE1-SP221-050418	TCLP	Solid	EPA 8260C	244314
180-77433-23	NLF-SS-PHASE1-SP222-050418	TCLP	Solid	EPA 8260C	244314
180-77433-24	NLF-SS-PHASE1-SP223-050418	TCLP	Solid	EPA 8260C	244314
180-77433-25	NLF-SS-PHASE1-SP224-050418	TCLP	Solid	EPA 8260C	244314
180-77433-26	NLF-SS-PHASE1-SP225-050418	TCLP	Solid	EPA 8260C	244314
LB 180-244314/1-A	Method Blank	TCLP	Solid	EPA 8260C	244314
LCS 180-244372/3	Lab Control Sample	Total/NA	Solid	EPA 8260C	

Analysis Batch: 244465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-77433-17	NLF-SS-PHASE1-SP216-050418	Total/NA	Solid	EPA 8260C	244130
180-77433-18	NLF-SS-PHASE1-SP217-050418	Total/NA	Solid	EPA 8260C	244130
180-77433-19	NLF-SS-PHASE1-SP218-050418	Total/NA	Solid	EPA 8260C	244130
180-77433-20	NLF-SS-PHASE1-SP219-050418	Total/NA	Solid	EPA 8260C	244130
180-77433-21	NLF-SS-PHASE1-SP220-050418	Total/NA	Solid	EPA 8260C	244130
180-77433-22	NLF-SS-PHASE1-SP221-050418	Total/NA	Solid	EPA 8260C	244130
180-77433-24	NLF-SS-PHASE1-SP223-050418	Total/NA	Solid	EPA 8260C	244130
180-77433-25	NLF-SS-PHASE1-SP224-050418	Total/NA	Solid	EPA 8260C	244130
MB 180-244130/1-A	Method Blank	Total/NA	Solid	EPA 8260C	244130
LCS 180-244130/2-A	Lab Control Sample	Total/NA	Solid	EPA 8260C	244130
180-77433-21 MS	NLF-SS-PHASE1-SP220-050418	Total/NA	Solid	EPA 8260C	244130

TestAmerica Pittsburgh

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Stratus Redtail Ranch, LLC

TestAmerica Job ID: 180-77433-1

GC/MS VOA (Continued)

Analysis Batch: 244465 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-77433-21 MSD	NLF-SS-PHASE1-SP220-050418	Total/NA	Solid	EPA 8260C	244130

Analysis Batch: 244605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-77433-23	NLF-SS-PHASE1-SP222-050418	Total/NA	Solid	EPA 8260C	244130
180-77433-26	NLF-SS-PHASE1-SP225-050418	Total/NA	Solid	EPA 8260C	244130

General Chemistry

Analysis Batch: 244425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-77433-2	NLF-SS-PHASE1-SP201-050418	Total/NA	Solid	2540G	11
180-77433-3	NLF-SS-PHASE1-SP202-050418	Total/NA	Solid	2540G	11
180-77433-4	NLF-SS-PHASE1-SP203-050418	Total/NA	Solid	2540G	11
180-77433-5	NLF-SS-PHASE1-SP204-050418	Total/NA	Solid	2540G	11
180-77433-6	NLF-SS-PHASE1-SP205-050418	Total/NA	Solid	2540G	11
180-77433-7	NLF-SS-PHASE1-SP206-050418	Total/NA	Solid	2540G	11
180-77433-8	NLF-SS-PHASE1-SP207-050418	Total/NA	Solid	2540G	11
180-77433-9	NLF-SS-PHASE1-SP208-050418	Total/NA	Solid	2540G	11
180-77433-10	NLF-SS-PHASE1-SP209-050418	Total/NA	Solid	2540G	11
180-77433-11	NLF-SS-PHASE1-SP210-050418	Total/NA	Solid	2540G	11
180-77433-12	NLF-SS-PHASE1-SP211-050418	Total/NA	Solid	2540G	11
180-77433-13	NLF-SS-PHASE1-SP212-050418	Total/NA	Solid	2540G	11
180-77433-14	NLF-SS-PHASE1-SP213-050418	Total/NA	Solid	2540G	11
180-77433-5 DU	NLF-SS-PHASE1-SP204-050418	Total/NA	Solid	2540G	11

Analysis Batch: 244436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-77433-15	NLF-SS-PHASE1-SP214-050418	Total/NA	Solid	2540G	
180-77433-16	NLF-SS-PHASE1-SP215-050418	Total/NA	Solid	2540G	
180-77433-17	NLF-SS-PHASE1-SP216-050418	Total/NA	Solid	2540G	
180-77433-18	NLF-SS-PHASE1-SP217-050418	Total/NA	Solid	2540G	
180-77433-19	NLF-SS-PHASE1-SP218-050418	Total/NA	Solid	2540G	
180-77433-20	NLF-SS-PHASE1-SP219-050418	Total/NA	Solid	2540G	
180-77433-21	NLF-SS-PHASE1-SP220-050418	Total/NA	Solid	2540G	
180-77433-22	NLF-SS-PHASE1-SP221-050418	Total/NA	Solid	2540G	
180-77433-23	NLF-SS-PHASE1-SP222-050418	Total/NA	Solid	2540G	
180-77433-24	NLF-SS-PHASE1-SP223-050418	Total/NA	Solid	2540G	
180-77433-25	NLF-SS-PHASE1-SP224-050418	Total/NA	Solid	2540G	
180-77433-26	NLF-SS-PHASE1-SP225-050418	Total/NA	Solid	2540G	
180-77433-24 DU	NLF-SS-PHASE1-SP223-050418	Total/NA	Solid	2540G	

TestAmerica Pittsburgh

TestAmerica Pittsburgh
301 Alpha Drive

Chain of Custody Record

182610

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-6210 (0713)

Pittsburgh, PA 15238
Phone: 412.963.7058 Fax: 412.963.2470

Regulatory Program: DW NPDES RCRA Other:

Client Contact		Project Manager: P. Melvin / T. Lawrence		Site Contact: P. Melvin		Date: <u>182610 7M</u>	COC No: _____ of 3 COCs
Company Name: Geosyntec		Tel/Fax: 303-740-1340		Lab Contact: D. Dunkley		Carrier: _____	Sampler: 7M
Address: 5670 Greenwood Plaza Blvd., Ste 2340		Analysis Turnaround Time					For Lab Use Only: _____
City/State/Zip: Greenwood Village CO 80111		<input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS					Walk-in Client: _____
Phone: 303-740-1340		TAT if different from Below:					Lab Sampling: _____
Fax: _____		<input type="checkbox"/> 2 weeks					Job / SDG No.: _____
Project Name: Stratus Residential Ranch		<input type="checkbox"/> 1 week					
Site: Erie CO		<input type="checkbox"/> 2 days					
PO #: TBO302		<input type="checkbox"/> 1 day					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:
TB05041S		5/4/18	1005	G	WW	2	NW X
NLF-SS - PHASE1 - SP201 - 050414		1010	1010	G	Sol	2	XX
NLF-SS - PHASE1 - SP202 - 050414		1020	1020				
NLF-SS - PHASE1 - SP203 - 050414		1027	1027				
NLF-SS - PHASE1 - SP204 - 050414		1033	1033				
NLF-SS - PHASE1 - SP205 - 050414		1034	1034				
NLF-SS - PHASE1 - SP206 - 050414		1045	1045				
NLF-SS - PHASE1 - SP207 - 050414		1052	1052				
NLF-SS - PHASE1 - SP208 - 050414		1054	1054				
NLF-SS - PHASE1 - SP209 - 050414		1056	1056				
NLF-SS - PHASE1 - SP210 - 050414		1112	1112				
NLF-SS - PHASE1 - SP211 - 050414		1114	1114				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification:

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

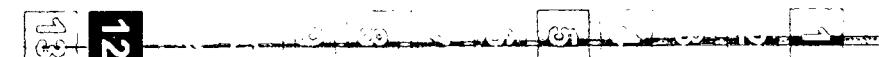
Return to Client Disposal by Lab Archive for 1 Months

Special Instructions/QC Requirements & Comments:

See project specific list for VCLs (shipped in 2 coolers)

Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____		Corrd: _____	Therm ID No.: _____
<i>X out PW</i>	Company: Geosyntec	Date/Time: 5/4/18 1515	Received by: <i>ADMARSH 5/4/18</i>	Company: G. Gopher	Date/Time: 4 May / 15:15
<i>in</i>	Company: G. Gopher	Date/Time: 5/5/18 3:55	Received by: <i>ADMARSH 5/5/18</i>	Company: Geosyntec	Date/Time: 05/4/18 3:55
<i>out PW</i>	Company: Geosyntec	Date/Time: 05/04/18	Received in Laboratory by: <i>Geosyntec</i>	Company: T. P. Pitt	Date/Time: 5-5-18 10:30

5/20/18



TestAmerica Pittsburgh
301 Alpha Drive

Chain of Custody Record

182611

TestAmerica

Pittsburgh, PA 15238
Phone: 412.963.7058 Fax: 412.963.2470

Regulatory Program: DW XPOES RORA Other:

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Client Contact		Project Manager: <input checked="" type="checkbox"/> Medium <input type="checkbox"/> Known		Site Contact: <input checked="" type="checkbox"/> Medium <input type="checkbox"/> Known		Date: 7/4/18		COC No.: <input checked="" type="checkbox"/> of 3 COCs			
Company Name: <i>See COC 1 of 3</i>	Address	Tel/Fax:	Lab Contact: <input checked="" type="checkbox"/> Develop		Carrier:		Sampler: <input checked="" type="checkbox"/>				
City/State/Zip:	Analysis Turnaround Time						For Lab Use Only:				
Phone:	<input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS						Walk-in Client:				
Fax:	TAT if different from Below						Lab Sampling:				
Project Name: <i>Streets Residential Ranch</i>	<input checked="" type="checkbox"/> 2 weeks						Job / SDG No.:				
Site: <i>Eric CO.</i>	<input type="checkbox"/> 1 week										
PO # <i>DE-0302</i>	<input type="checkbox"/> 2 days										
		<input type="checkbox"/> 1 day									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Perform VOC (Y/N)	Perform Vol-TCLP (Y/N)	Sample Specific Notes:
NLF-SS-PHASE1-SP212-050418		7/4/18	1126	G	Sol.1	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
NLF-SS-PHASE1-SP213-050418		7/4/18	1133				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
NLF-SS-PHASE1-SP214-050418		7/4/18	1139				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
NLF-SS-PHASE1-SP215-050418		7/4/18	1315				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
NLF-SS-PHASE1-SP216-050418		7/4/18	1321				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
NLF-SS-PHASE1-SP217-050418		7/4/18	1327				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
NLF-SS-PHASE1-SP218-050418		7/4/18	1333				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
NLF-SS-PHASE1-SP219-050418		7/4/18	1339				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
NLF-SS-PHASE1-SP220-050418		7/4/18	1345			6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
NLF-SS-PHASE1-SP221-050418		7/4/18	1355			2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
NLF-SS-PHASE1-SP222-050418		7/4/18	1401	<input checked="" type="checkbox"/>		1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
NLF-SS-PHASE1-SP223-050418		7/4/18	1407	<input checked="" type="checkbox"/>		1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Preservation Used: 1= Ico, 2= HCl; 3= H ₂ SO ₄ ; 4= HNO ₃ ; 5= NaOH; 6= Other											
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input checked="" type="checkbox"/> Archive for 1 Months											
Special Instructions/QC Requirements & Comments: <i>See project specific list for VOCs (shipped in 2 cases)</i>											

Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C) Obs'd:		Corr'd.	Therm ID No.:
<i>Part M1</i>	Company: Geosyntec	Date/Time: 7/4/18 1515	Received by: <i>W.M. Gopher</i>	Company: G. Carter	Date/Time: 4 May 18:15
<i>5</i>	Company: G. Gopher	Date/Time: 7/4/18 1555	Received by: <i>W.M. Gopher</i>	Company: G. Gopher	Date/Time: 090418 3:55
<i>6</i>	Company: G. Gopher	Date/Time: 7/4/18 1600	Received in Laboratory by: <i>Deruelle (J. G.)</i>	Company: J.A. Pitt	Date/Time: 5-5-18 10:50

TestAmerica Pittsburgh
301 Alpha Drive

Pittsburgh, PA 15238
Phone: 412.963.7058 Fax: 412.963.2470

Chain of Custody Record

182612

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Client Contact		Project Manager: <input checked="" type="checkbox"/> Me / <input type="checkbox"/> T Kenne		Site Contact: <input checked="" type="checkbox"/> Me / <input type="checkbox"/> J		Date: 5/4/18	COC No:
Company Name: Address City/State/Zip		Tel/Fax: Analysis Turnaround Time		Lab Contact: <input checked="" type="checkbox"/> Dunt		Carrier:	<u>3</u> of <u>5</u> COCs
Phone: Fax: Project Name: Site PO #		<input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below					Sampler: TM
Stratus Redbird Ranch Erie Co DEC802		<input type="checkbox"/> 2 weeks <input checked="" type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day					For Lab Use Only:
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Walk-in Client: Lab Sampling:
NLF-SS-PHASE1-SP224-050419		5/4/18	1413	G	Sol	2	Job / SDG No.:
NLF-SS-PHASE1-SP225-050418		↓	1419	↓	↓	J	Sample Specific Notes:
Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other							
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.							
<input type="checkbox"/> Non-Hazard <input checked="" type="checkbox"/> Flammable <input checked="" type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input checked="" type="checkbox"/> Archive for 1 Months					
Special Instructions/QC Requirements & Comments: See project specific list for VOCs (shipped in 2 Caders)							

Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: <input checked="" type="checkbox"/> Corr'd: _____ Therm ID No.: _____	
Relinquished by: <i>Kent (W)</i>	Company: Geosyntec	Date/Time: 5/4/18 15:15	Received by: <i>not signed</i> <input checked="" type="checkbox"/> G Gopher Date/Time: 4 May / 15:15
Relinquished by: <i>J. Morgan D. Kunkel</i>	Company: G Gopher	Date/Time: 4 May 15:55	Received by: <i>not signed</i> <input checked="" type="checkbox"/> G Gopher Date/Time: 30418 3:55
Relinquished by: <i>J. Morgan D. Kunkel</i>	Company: G Gopher	Date/Time: 050418	Received in Laboratory by: <i>Delilah, J. Morgan D. Kunkel</i> Date/Time: 5-5-18 10:30

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-77433-1

Login Number: 77433

List Source: TestAmerica Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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